

# The 50 MHz DX Bulletin

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The 50 MHz DX Bulletin was founded by Harry Schools KA3B. It is dedicated to the understanding and utilization of long distance propagation in the 6-meter Amateur band. The current editor and publisher is Victor Frank, K6FV. Subscription rates are \$20 U.S. third class mail, \$25 U.S./Canada/Mexico airmail, \$25 by surface and \$30 by airmail elsewhere for 12 issues. Circulation matters and DX reports should be sent to Victor R. Frank, K6FV, 12450 Skyline Blvd., Woodside, CA 94062-4541 USA or to P O Box 762, Menlo Park, CA 94026 USA. My Internet address is frank@sneey.sri.com. The bulletin may be freely quoted, provided that credit is given.

## 50 MHz Activity from Africa/Asia

We are encouraged to see some recent activity from some countries new to 6m or lacking reported activity for some time. Inside you will find reports of the ZD8VHF beacon on Ascension Is. being received in Europe and North America, rare for Es. Other Africans include 9G1YR in Ghana, TR8CA in Gabon, and 5A1A in Libya. Apparently 7Z1OO is the call 7Z5OO uses on 6m in Saudi Arabia. The DX-pedition by a group of PAs to Georgia (CIS) has yielded 6m QSOs not only with Europe, but also with Japan. Finally, we see some continued activity from China from club station BY7WGL in Guilin, Guangxi province.

## It's Probably Cycle 23 By Now!

I base that conclusion on a notice to subscribers in Preliminary Report And Forecast Of Solar Geophysical Data dated June 18. "Effective June 1996, we are publishing an interim prediction for Solar Cycle 23 that we feel is more representative of current thinking that Cycle 23 is better represented by the family of recent cycles. This prediction is the mean of Solar Cycles 18-22. The 90% confidence limits are calculated using data from those cycles. **This prediction uses July 1996 as the start of Solar Cycle 23.** This prediction is expected to be replaced using results from a NASA sponsored solar cycle prediction workshop to be held later this year." The prediction puts the peak of Solar Cycle 23 early in year 2000 at a smoothed sunspot number of 150, almost as high as that of Cycle 22. You will find a plot from that publication on our last page.

## Multi-hop Es Statistics

You will also find on our last page a plot of the diurnal distribution of multi-hop Summer Es as observed by WA1OUB and K6QXY. The two sets of data are not exactly comparable, but have very similar characteristics.

As the data set from K6QXY is the least homogeneous, I will describe it first. It covers the years 1992 through the present. The period 1800-2230Z includes openings from his QTH in CM88QL to KL7 only. The period peaking around 0000Z includes KL7s and JAs. The period after 0300Z includes KL7s, JAs, and VE8s. The path to JA is around 5000 miles (8000 km). The path to KL7 and VE8 is about half that.

The term percent of events, of course can only refer to openings observed, and there are probably lots of openings to areas populated only by fish.

WA1OUB's curve refers to percent of trans-Atlantic QSOs during each hour block. His observations cover 1502

trans-Atlantic 6m QSOs during the summer Es season over a period of over 10 years.

A critical observer could find fault with the sampling methods used. Radio amateur activity is a notoriously fickle indicator, being influenced greatly by working hours and holidays. Still, the measurement of VHF multi-hop Es appears to remain in the amateur-only domain.

In an attempt to measure the path more accurately (and probably with intent of taking more advantage of trans-Atlantic VHF Es openings), Bob Mobile, WA1OUB has recently been monitoring a 48.250 MHz video carrier originating from East of Madrid, Spain (IN80) with an ERP of 500 kW. This a nominal 3-hop Es path.

He has posted the results of these and other measurements of his to the Internet and I am going to cut and snip from his postings for most of the remainder of this article, which should extend until we run out of space. I hope that such editing will add to the understanding of the phenomena, rather than adding confusion.

A major reduction in propagation between here (Latitude 43 Deg N.) and IN80 was noted over the last few days. For those interested, here are the numbers of minutes of propagation versus date for the last week:

DATE	MINUTES > 48.24 MHZ
Jun 13	377
Jun 14	589
Jun 15	710
Jun 16	647
Jun 17	69 (Kp = 3 at 03-06Z and 09-12Z)
Jun 18	361 (Kp=4 21-24Z) Mostly skewed south path
Jun 19	165 (Kp=5 00-06Z, Kp=4 06-09Z) All skewed S.

Kp Index figures tnx to NOAA. The measured path exceeds 5000 km. The overall high for the entire test was 1188 on 12 June which had continuous overnight propagation. Major enhancement was noted on multihop N-S paths during the depressed E-W path readings.

Here are the minutes of detected transatlantic propagation measured over 48.24 MHz vs week for the 1996 season to date 22 June 1996.

WEEK OF	MINS > 48.24 MHZ
21 April	0
28 April	10
05 May	361
12 May	388
19 May**	1199
26 May**	2147
02 June**	2070
09 June**	3867
16 June	1876

\*\* Denotes week with 6m transatlantic contacts or beacons heard

(Continued on page 11)



06020131 HL2IPC 50.142 S JA1VOK 06031145 BV/OE2EKL 50.110 H JE2DWE 06071103 CU3URA -117 S3 50.013 B WA1OUB  
 06020152 HL2TP 50.190 S JJ1CKD 06031200 BV/OE2UKL 50.110 H JA3JTG 06112253 CU3AC 55 > FM410Q MA W WP40/1  
 06020200 HL2TP 50.190 S JA3 06031200 BV/OE2UKL > PM74 50.110 H JJ3WXG 06112257 CU3AC 54 Es S W5UWB  
 06020230 HL2OWW 50.174 S JA3 06031226 BV4PK > PM74 50.001 B JJ3WXG 06112259 CU3AC > FM65RR 50.110 E VE9AA  
 06020426 HL1LTC 50.110 S JHOBQX 06031338 BV4PK > PM74 50.110 H JE2DWE 06112345 CU3URA DEAD CARRIER > FH43 B WA1OUB  
 06021000 HL -1020 > QM05 145. H JA8UGJ 06031339 BV4PK 50.110 H JJ3WXG 06120000 CU3URA -0202 > FM43AD B WA1OUB  
 06021015 HL4GUW > QM16 144.940 F UA0FL 06031340 BV4PH 50.110 H JE2DWE  
 06021045 HL8 50.150 S JA1/7/8 06031345 BV4PH 50.110 S JA1/2/3/7/8  
 06072339 HL1AHW 50.250 S JHOBQX 06031354 BV4PH > PM74 50.011 C JR3HED  
 06080111 HL1IEJ 50.200 S JA1JTG 06040030 BV2NT 50.110 H JE2DWE  
 06080130 HL1LTC 50.125 S JA1VOK 06040032 BV2NT 50.125 B JA3JTG  
 06080313 HL1IEJ 50.320 S JHOBQX 06040246 BV2FG/b 50.001 B JE2DWE  
 06080322 HL2IPC 50.135 S JHOBQX 06040456 BV2FI 50.110 H JE2DWE  
 06081154 HL2IKY 50.070 H JJ3WXG 06040515 BV2FI 50.120 S JA3  
 06090031 DS5UMB 145.040 F JA1VOK 06050045 BV2FG/B 50.001 B JA3  
 06090032 HL3EQR 145.040 H JA1VOK 06050045 BV2FG/B 50.001 B JA3  
 06090230 HL2TCP 50.135 S JA3 06060000 BV2FG/b 50.001 B JA3JTG  
 06141048 HL2IKY 50.120 H JA1VOK 06060030 BV2SR 50.110 S JA3  
 06141100 HL2DIB 50. JAI/2 06060039 BV2SR 50.110 H JE2DWE  
 06142245 HL2IPC 50.160 S JA1/J 06060125 BV2FG/b 50.001 B JE2DWE  
 06150010 HL2IPC 50.160 H JA1VOK 06060200 BV2FG/B 50.001 B JA3  
 06150200 HL1SOL 50.160 H JA1VOK 06070000 BV2FG/b 50.001 B JA3JTG  
 06160110 HL2DIB 50.208 H JA1VOK 06070113 BV4PH 50.120 S JA6TEW  
 06160113 HL2TP 50.199 S JJ1CKD 06070145 BV2FG/B 50.001 B JA3  
 06160115 HL2TP 50.200 H JA1VOK 06070145 BV4PH 50.120 S JA3  
 06160121 HL2GS 50.210 S JA1VOK 06070310 BV2FG/b > PM74 50.001 B JJ3WXG  
 06160131 HL1ACW 51.020 F JJ1CKD 06080126 BV2NT 50.110 S JA6TEW  
 06160244 HL2IKY 50.070 C JJ1CKD 06080339 BV2FG/2 50.100 C JHOBQX  
 06160944 HL2IKY 50.080 H JA1VOK 06090021 BV/OE2UKL > PL36 50.106 C JR6VSP  
 06170135 HL1LTC 50.110 S 7J6CCU 06090044 BV2FG/2 (PL05) -0207 144.11 S JA7-8  
 06170135 HL1LTC > QL17 50.110 S JD1BJP 06090114 BV2RR/2 (PL05) -0127 144.11 S JA7-8  
 06170246 DS1BJU > QL17 50.110 S JD1BJP 06090128 BV2/BO2AB -0140 144.110 S JA7-8  
 06170257 HL1ACW 51.020 F JJ1CKD 06090400 BV2/BO2AB 50.115 S JA3  
 06200220 HL2IPC 50.180 S JA1JTG 06090424 BV2/BO2AB 50.115 H JA1VOK  
 06220358 HL10VW 50.230 S JA1VOK 06090454 BV7GK > PM74 50.110 H JJ3WXG  
 06220438 HL1LTC 50.120 S JA1VOK 06090500 BV2SR/2 50.115 S JA3  
 06090500 BV7GK 06090640 BV2LK > PM74 50.100 H JJ3WXG  
 06100000 BV2FG 06100030 BV2SR 50.112 C JA3  
 06100135 BV2FG/b 06100135 BV2FG/b 50.120 S JA3  
 06100135 BV4PH 06100135 BV4PH 50.001 B JA3JTG  
 06110935 BV2NT 06110935 BV2NT 50.110 H JA3JTG  
 06110941 BV2NT > PM74 50.120 H JA6TEW  
 06130945 BV2HL 06130945 BV2HL 50.110 H JA6TEW  
 06130945 BV2SR 06130945 BV2SR 50.110 H JA6TEW  
 06130945 BV4PH > PM74 50.110 H JJ3WXG  
 06130948 BV2HL > PM74 50.110 H JJ3WXG  
 06130950 BV2SR > PM74 50.110 H JJ3WXG  
 06131007 BV/OE2UKL 06131007 BV/OE2UKL 50.125 S JA3WXG  
 06131015 BV/OE2UKL 06131030 BV/OE2UKL 50.125 S JA6TEW  
 06131030 BV/OE2UKL 06131030 BV2FG 50.120 S All JA  
 06131030 BV2FG 06131030 BV2FG 50.100 C All JA  
 06131037 BV4PK 06131037 BV4PK 50.106 S All JA  
 06131115 BV2FG 06131115 BV2FG 50.110 C All JA  
 06131215 BV5HH 06131215 BV5HH 50.125 H JA1VOK  
 06150146 BV2FG/b > PM64 06150227 BV3FG 50.001 B JH4JPO  
 06150245 BV2FG/B 06150245 BV3FG 50.106 S JA1VOK  
 06150245 BV3FG 06150245 BV3FG 50.001 B All JA  
 06160143 BV/OE2UKL 06160143 BV/OE2UKL 50.106 C All JA  
 06200155 BV3FG 06020000+BV VID -2152 06070910 EUR INBAND TV VY STRONG I G4UPS  
 060702138 BV2PG 06140400 EUR VID 10' > 0700 48.242 V WB9AJZ/6 C KC4AUF/J6  
 06140400 EUR VID 10' > 0700 49.752 V WB9AJZ/6 06070910 EUR INBAND TV VY STRONG I G4UPS  
 06142300 EUR VID 2TF 10' > 0800 49.75 V K6QXY 06070910 EUR INBAND TV VY STRONG I G4UPS  
 06180000+BV VID -0800 48.250 V K6QXY 06070910 EUR INBAND TV VY STRONG I G4UPS

**RUSSIAN FEDERATION (ASIATIC):**  
JA1VOK writes that Anatoly, UA0CQ, in Khabarovsk (PN78ML) is QRV on 6m with a Kenwood TR-9300 + HL-66V (50W output) amp and homebrew 3 el Yagi. He is re-permitted to operate 6m from June 15 to August 15 and he is active weekends or local evenings during the week.

UA0FH is very active on 2m from Sakhalin Is. and recently submitted verification for Worked All JA Districts on 2m. His address is: Victor L. Bainetov, P.O. Box 29, Yuzhno-Sakhalinsk, Sakhalin Is. 693013, RUSSIA.

06170937 UA0CQ 50.110 H JA6TEW  
 06171000 UA0CQ 50.110 S JHOBQX  
 06171018 UA0CQ > PM95 50.110 S JH1WHS  
 06171030 UA0CQ 50.110 S All JA  
 06171048 UA0CQ 50.110 H JA1VOK  
 06171115 UA0CQ > PL36 50.110 H JR6VSP  
 06191000 UA0CQ 50.115 H JA1VOK  
 06220003 UA0CQ 50.110 S JA1VOK  
 06220258 UA0CQ > PM53 50.120 H JA6TEW  
 06220900 UA0CQ 57 > QM08 50.110 S JH7LGJ  
 06230416 RWOCID PN78 > QM05 50.201 S JA1VOK  
 06230428 RWOCID PN78 > PM53 50.202 S JA6TEW  
 06230441 RWOCID PN78 > RM85 50.202 S JA2BEV

## TAIWAN

05250621 BV2PG > PM85 50.120 H JE2DWE  
 05250622 BV2NT > PM85 50.110 H JE2DWE  
 05250815 BV2FG/b > PM74 50.001 B JJ3WXG  
 05250815 BV2NT > PM74 50.120 H JJ3WXG  
 05250914 BV2FG/b > PM85 50.001 B JE2DWE  
 05251035 BV8BC > PM42 50.110 H JA61DJ  
 05270530 BV2FG/B > PM85 50.001 B JA3  
 05270717 BV2FG/b > PM85 50.001 B JE2DWE  
 05270735 BV2F1 > PM85 50.150 H JE2DWE  
 05270739 BV2RR > PM85 50.120 H JE2DWE  
 05270932 BV2NT > PM85 50.120 H JE2DWE  
 05271128 BV2PG > PM85 50.100 H JE2DWE  
 05271149 BV2SR > PM85 50.110 H JE2DWE  
 05271210 BV2/BO2AB > PM85 50.115 S JE2DWE  
 05271228 BV4PH > PM85 50.110 H JE2DWE  
 05271309 BV5HH 50.125 S JA5CMO  
 05271314 BV4PK 50.125 S JA5CMO  
 05271318 BV5HH > PM85 50.125 S JE2DWE  
 05271334 BV5HH 50.130 S JA61DJ  
 05280156 BV2FG/b > PM85 50.001 B JE2DWE  
 05280345 BV2FG/B > PM85 50.001 B JA3  
 05281248 BV4PH 50.110 S JA3/4/5  
 05310123 BV2FG/b > PM85 50.001 B JE2DWE  
 05310133 BV4PH > PM75 50.110 S JE2DWE  
 05310139 BV4PH > PM75 50.110 S JA3JTG  
 06010117 BV-TV 53.150 F JHOBQX  
 06010125 BV7GK 51.100 H JA61DJ  
 06010520 BV2SR > PM85 50.110 H JE2DWE  
 06010546 BV4PH 50.110 H JE2DWE  
 06011048 BV/OE2UKL 50.110 C JA3JTG  
 06011123 BV/OE2UKL > PM74 50.131 H JJ3WXG  
 06020819 BV4PK > QM03 50.120 S JM3UQC  
 06020820 BV4PK > QM03 50.106 C JA8RC  
 06020858 BV/OE2UKL > QM03 50.001 B JE2DWE  
 06030353 BV2FG/b 50.001 B JA3JTG

## Reports of Europe

### EUROPE GENERAL

05091617 EUR INBAND TV STRONG > IO80 I G4UPS  
 05101315 EUR INBAND TV WEAK I G4UPS  
 05111630 EUR INBAND TV STRONG I G4UPS  
 05192130 EUR INBAND TV > IO80JV I G4UPS  
 05200700 EUR TV STRONG -1030 > JO65 I SM7AED  
 05200700+EUR INBAND TV INTENSE > 0833 I G4UPS  
 05231410+EUR INBAND TV > IO80JV I G4UPS  
 05241420+EUR TV VY INTENSE > IO80JV I G4UPS  
 05270910 EUR INBAND TV VY STRONG I G4UPS  
 060702138 BV2PG 06070910 EUR INBAND TV VY STRONG I G4UPS  
 06140400 EUR VID 10' > 0700 48.242 V WB9AJZ/6 C KC4AUF/J6  
 06140400 EUR VID 10' > 0700 49.752 V WB9AJZ/6 06070910 EUR INBAND TV VY STRONG I G4UPS  
 06142300 EUR VID 2TF 10' > 0800 49.75 V K6QXY 06070910 EUR INBAND TV VY STRONG I G4UPS  
 06180000+BV VID -0800 48.250 V K6QXY 06070910 EUR INBAND TV VY STRONG I G4UPS

**ALAND IS.: DJ2PJ, DL5FF, et al., were to have been active as OH0JWH, OI0JWL and OH0JWL from Oeverby, JP90TF, between June 7 and 14.**

05241340 OH0JET 59 > IO80JV H G4UPS

### AUSTRIA

05101459 OE6JUD 59/59 JH76RQ JOHN S G4UPS  
 05101511 OE6MBG 599/429 JH77JE C G4UPS  
 05111645 OE6MHG 57 > IO80JV H G4UPS  
 05121016 OE5BKG ES JH77 > JO65 W SM7AED  
 05181843 OE6JUD JH76 > JO65 H SM7FJE  
 05191641+OE6LOG, OE6JUD 59 > IO80JV H G4UPS  
 05200730+OE > IO80JV H G4UPS  
 05220847 OE9NHI 59/59 JH47UL-KN14VH S YOTVS  
 05231057 OE4WNG 59/58 JH87BB PETER S G4UPS  
 05231121 OE6BMQ JH77 > JO66 SM7AED/  
 05231200 OE85CA 599/599 JH78BI > IO80 C G4UPS  
 05241520 OE8PPK 58/58 JH76FU PEPE S G4UPS

### AZERBAIJAN CIS

05111535 4K6D LN40 50.121 IKOPTA

**AZORES IS.**

05271030 CU3URA/SIX HM68>JO65 -1200 B SM7AED  
 05271044 CU3URA 569 B OE7DX  
 05291920 CU3URA 449-->569 -2200 B G4UPS

06071103 CU3URA -117 S3 50.013 B WA1OUB  
 06112257 CU3AC 54 Es S W5UWB  
 06112259 CU3AC > FM65RR 50.110 E VE9AA  
 06112345 CU3URA DEAD CARRIER > FH43 B WA1OUB  
 06120000 CU3URA -0202 > FM43AD B WA1OUB

### BALEARIC IS.

05111425 EH6IX 59/59 JH20BA>KN14VH S YOTVS  
 05131845 EH6ADW 59+20 JH19 JOSE C G4UPS  
 05151450 EH6ADW 579/579 JH19>KN14VH C YOTVS  
 05151450 EH6SA 59/59 JH19>KN14VH S YOTVS  
 05181213 EH6ADW 55/55 JH19 > IO80JV S G4UPS  
 05190700 EH6SA 59 > IO80JV H G4UPS  
 05190707+EH6ADW 59 > IO80JV H G4UPS  
 05251124 EH6ADW JH19 > JO65 SM7AED  
 05XX9XXX EH6ADW QSL VIA DF5JJ  
 06308184 EH6ADW 59/57 JH19KO>KN14VH S YOTVS  
 06040808 EH6ADW 599/599 JH19KO>KN14 C YOTVS

### BELARUS

05181636 EU6MS 55 > IO80JV H G4UPS  
 05200820 EU1AA KO33 > JO65 SM7AED  
 05201643 EU6MS 59/56 KO45IN > IO80 S G4UPS

### BELGIUM

05101357 OH4BG 57/55 JH10WM>KN14VH S YOTVS  
 05101405 OH1LHS 57/57 JH10QP>KN14VH S YOTVS  
 05240547+ON3BNLP KP11 > JO65 SM7AED  
 05241055+ON4CBA 59 WKG ES STNS H G4UPS  
 06041445 OH4GG IM57 50110.0 CT/LAOBY/P  
**BOSNIA-HERZEGOVINA**  
 05180844 T9BBBF WK9 G3IBI > IO80JV H G4UPS  
 05181602 T9TV JH84 > JO65 SM7FJE  
 05181613 T9BBBF JH84 > JO65 SM7AED  
 05181624 T9TV JH84 > JO65 SM7AED  
 05181805 T9BBBF 599/599 JH84 > IO80 C G4UPS  
 05181813+T97V 55 > IO80JV H G4UPS  
 05190814 T9/LATFA 57/55 JH84WVE S G4UPS  
 05190819 T97V 599/599 JH84 > IO80JV C G4UPS  
 05191551+T9BBBF 579 > IO80JV H G4UPS  
 05191625 T97V 57 > IO80JV H G4UPS  
 05231635 T9BBBF 599/599 JH84WE C G4UPS  
 05241351+T97V 599 > IO80JV H G4UPS  
 05XX9XXX T9BBBF QSL VIA OH2IC

### BULGARIA

05111520 LZ1ZP KN01RX>JN12FE 50.135 EH3CUU  
 05181535 LZ2FT KB34 > JO65 SM7FJE  
 05181539 LZ2FT KB34 > JO65 SM7AED  
 0527 LZ1SIX KN12OO 1 WATT 50.083B G  
 06020705 LZ1UK/M 599/599 KM32AP>KN14C YOTVS

### CRETE

05081540 SV9ANK ES KM25 > JO65 H SM7AED  
 05111541 SV9SIX > JN37SM 50.010 B HB9DFG  
 05120810 SV9SIX -0900 KM25 50.010 B YOTVS  
 05131838 SV9SIX 539 > JO71 50.010 DL9USA  
 05151546 SV9SIX > JO65 B SM7FJE  
 05181810 SV9SIX, SV1SIX > JO65 B SM7AED  
 05181822 SV9ANK KM25 > JO65 H SM7FJE  
 05211613 SV9SIX 559==>579 > IO80JV B G4UPS  
 05220735 SV9SIX -1100 KM25 50.0096 B YOTVS  
 05290400 SV9SIX -1355 KM25NH50.0102 B YOTVS  
 05311000 SV9SIX -1045 KM25NH50.0103 B YOTVS  
 06040945 SV9SIX -1120 KM25NH50.0101 B YOTVS

### CROATIA

04271109 9A2BZ > JO54 OX3ZW  
 05101329 9A3FT 59/59 JH83PM RENNY S G4UPS  
 05101420 9A3FT 59/59 JH86EZ MILAN S G4UPS  
 05111657 9A3HE 59/59 JN86EJ LUCI S G4UPS  
 05181015+9A3AT 569 > IO80JV B G4UPS  
 05181718 9A2BZ JH64 > JO65 SM7AED  
 05181728 9A51 JH95 > JO65 SM7FJE  
 05181733 9A3FT 579/579 JH86EJ > KN14VH C YOTVS  
 05181835 9A3FT, 9A7V, 9A3AT, 9A2OM 59 > IO80JV H G4UPS  
 05191711 9A3FT JH83 > JO65 SM7AED  
 05200700 9A3AT 599 > IO80JV H G4UPS  
 05231133 9A2OM JH95 > JO66 SM7AED/  
 05191641+9A2OM 59 > IO80JV H G4UPS  
 05191711 9A3FT JH83 > JO65 SM7AED  
 05200700 9A3AT 599 > IO80JV H G4UPS  
 05231133 9A2OM JH95 > JO66 SM7AED/  
 05240856 9A4QV JH75 > JO65 SM7AED/  
 05241451 9A2OM 59/59 JH95IH KRUMO S G4UPS  
 05241445 9A6V 59/59 JH86EH EU0EH S G4UPS  
 05271735 9A3FT WKG UTTCR > JO65 H SM7AED

### CZECH REPUBLIC

05051031 OK2BGW 59/59 JH89 IVO -1045 G4UPS  
 05101317 OK1DX 59/59 JH89NO JH96NO C YOTVS  
 05101340 OK1FAV 59/58 JH89NO JH96NO C YOTVS  
 05101444 OK2EO 55, OK2DE 55 > IO80 G4UPS  
 05111650 OK2DB FA1589 QT2F260 50.150 9A3HZ  
 05111707 OK2HBR 55/529 JH89PP ED88ER G4UPS  
 05131100 OK2DB JH89 > JO71 50.110 DL9USA  
 05181612 OK1DX 59/59 JH89NO > KN14VH C YOTVS  
 05181650 OK2HBR 599/599 JH89PP>KN14 C YOTVS  
 05181922 OK2HBR > JO65 B SM7FJE  
 05181946 OK1FAV 59/59 JH60JD>IO80 C G4UPS  
 05182010 OK1DX 59/59 JH60NO PAVEB S G4UPS  
 05200916 OK2DB 599/599 JH89UE JARDA C G4UPS  
 05201548+OK2HBR 59 > IO80JV H G4UPS  
 05232143 OK2JII 59/59 JH89LJ XARDA S G4UPS  
 05232146 OK2BTI 59/59 JH89FU S G4UPS  
 05270957 OK1ER 59/59 JH70WH JAH S G4UPS  
 06041608 OK2PPP 50109.3 EH6ADW

## DENMARK

05070816 0E7DX 57/55 JO66DA > IO80JV S G4UPS  
 05101405 0E7IGY 559 > IO80JV B G4UPS  
 05131644 0E7IGY 53 JO55 > IO76 50.021 B GM4PLM  
 05151629 5P1ER J065 > JO65 TROP W SM7FJE  
 05211155 0E7IGY 479 -1159 > IO80JV B G4UPS  
 05231300 0SSBB 59/59 JO56DG BEW S G4UPS  
 05231533 0E8IES 59/59 JO55RT HENRYK S G4UPS  
 05231540+0E7IGY 599 > IO80JV B G4UPS  
 05231649 5P1ER 59/57 JO65HQ DAVE S G4UPS  
 05231715 0E2ELA 59/59 JO65EP MICHEL S G4UPS  
 05241425 0E8ABA 59/59 JO55QD > IO80 S G4UPS  
 05241432 0E5II 59/59 JO65AS PETER C G4UPS  
 05241507 0Z3EW 59/59 JO54RS TOR S G4UPS  
 05241550 0E1LLT 59/59 JO65HP ALAN S G4UPS  
 05241552 0E1AYE 59/59 JO65HP 51.400 F G4UPS  
 05261320 0E9SKB/LA > JO65 MS SM7FJE  
 05271006 0E1EWB 599/599 JO54WR TOMMYC G4UPS  
 05271018 0E9IT 59/59 JO46HW LEIF S G4UPS  
 05271029 0E3ZW 59/59 JO54 TOR S G4UPS  
 05271032 0E4VYV 59/59 JO46QU FINE S G4UPS  
 05271055 0E1DJY 59/59 JO65HP BO S G4UPS  
 05271123 0E3SDL/M 55/55 > IO80JV H G4UPS  
 05271207 5P1ER TROP J065 > JO65 SM7AED

## ENGLAND

04271231 64GUPS IO80 > JO54 0E3EW  
 04281341 G I070, 80, 81, 82, 90, 91, 92 0E3EW  
 04281341+G J000, 01.01 -1536 > JO54 0E3EW  
 05050757 64GUPS IO80 > JO65 SM7AED  
 05091214 2E0AJE 579/559 IO93FQ C Y07VS  
 05131937 GB3MCB 599 IO700J 50.041 B EA7KF  
 05181659 64IFX 579/579 IO94>K1BV4H C Y07VS  
 05191630 64HFO > JO65 H SM7AED  
 05191640 GB3MCB > JO65 B SM7AED  
 05231535 64GUPS IO80 > JO65 SM7AED  
 05240911 64OKR > JO65 SM7AED  
 05241030 GOJHC > JO65 SM7AED  
 05241228 61AHM IO83 > JO65 SM7AED  
 05241313 MOAAY IO93 > JO65 SM7AED  
 05241448 68YYB IO91 > JO65 SM7AED  
 05241450 64GUPS IO80 > JO65 SM7AED  
 05271100 GSXTJ IO91 > JO65 SM7AED  
 05271120 64GUPS > JO65 SM7AED  
 05271125 GHABA IO80 > JO65 SM7AED  
 05271150 MOAAQ/M IO80 > JO65 SM7AED  
 06071028 GLAWP IO95EJ>J054XP 144. W 14YHO ES  
 06091400-G3MCS > EL79 C K6EID/4  
 06112150 G3FPQ > FN43 W WA1OUB

## ESTONIA

05200811 E55DE KO38 > JO65 SM7AED  
 05200830 E56SIX KO37 > JO65 B SM7AED  
 05200940 E50SIX 579 > IO80JV B G4UPS  
 05201014 E55DE 559/559 KO38 > IO80 C G4UPS  
 05240524 E52RJ KO29 > JO65 SM7AED  
 05240531 E51XT KO29 > JO65 SM7AED  
 05240732 E54NG KO29 > JO65 SM7AED  
 05240750+ES0SIX 599 > IO80JV B G4UPS  
 05240750+ES5DE 59 > IO80JV H G4UPS  
 05240750+ES5RJ 559 > IO80JV H G4UPS  
 05240800 E55RJ 59/59 KO29JM TOM S G4UPS  
 05240915 E51SC 59/59 KO29 ARVO S G4UPS  
 05240923 E54NG 59/59 KO29WM VALDEK S G4UPS  
 05240940 E51II 59/59 KO29IJ HEL S G4UPS  
 05240954 E51XT 59/59 KO29KK ARBE S G4UPS

## FAROE ISLANDS

05231937 OX3JE 59/59 IP62 S G4UPS  
 05271344 OX3JE IP62 > JO65 H SM7AED  
 05301700 OY9JD 559/549 IP62OA J08 C G4UPS

## FINLAND

05201015 OH9SIX 529 KP36 > JO65 B SM7AED  
 05230610 OH18LX -0733 KP11QU 50.025 B Y07VS  
 05240547 OH4RH KP31 > JO65 SM7AED  
 05240735 OI1NSJ KP02 > JO65 SM7AED  
 05240813 OH7AI KP31 > JO65 SM7AED  
 05240946 OI1NSJ 559/559 KP01UL C G4UPS  
 05241018 OH4RK 599/559 KP31PV MAURI C G4UPS  
 05241018+OH1SIX 579 > IO80JV B G4UPS  
 05241018+OH3TR 55 > IO80JV H G4UPS  
 05241055 OH2RV 599/559 KP20B PERITC G4UPS  
 05241405 OH1KH 579/579 KP01TH SAKU C G4UPS

## FRANCE

04281106 F1CPX, F6CCN IM96 > JO54 0E3EW  
 04281131 FLAKE IM87 > JO54 0E3EW  
 04281133 F1MKE JH05 > JO54 0E3EW  
 04281154 F2ZR JH03 > JO54 0E3EW  
 04281201 F5DE JH05 > JO54 0E3EW  
 04281246 F6GNP IM97 > JO54 0E3EW  
 04281254 F5QOJ IM97 > JO54 0E3EW  
 04281312 F6CBH JH19 > JO54 0E3EW  
 04281314 F5SHO JH19 > JO54 0E3EW  
 05111219 F6BCS 589/559 JH12>K14VH C Y07VS  
 05111335 F1CPX IM97ED>JN11QT 50.159 IM7VY 57/57 JH12Q>K14VH S Y07VS  
 05111652 FLACC JH33 > JO65 SM7FJE  
 05121525 F5DE JH05 > JO65 SM7FJE  
 05121527 F1HWJ IM94 > JO65 SM7FJE  
 05151743 F1CH 59/59 JN23VE>K14VH S Y07VS  
 05151745 F1EYB 59/59 JN23KK>K14VH S Y07VS  
 05151748 F1BLB 59/59 >K14VH S Y07VS  
 05151758 F6HTJ 57/57 JH12Q>K14VH S Y07VS  
 05181645 F5AGU 559/579 JN38FCY>K14 V07VS  
 05181720 F1DSX 57/55 JN19IT>K14VH S Y07VS  
 05191650 F5O5 > JO65 SM7AED  
 05191824 F5HGT 59/59 JN24JA MICHEL S G4UPS  
 05200842 F8CS BACKSCATTER > JO65 SM7AED  
 05201750 F5JGD JH23 > JO65 FMI SM7AED  
 05211822 F5JGD 59/59 JN23EP ANDRE F G4UPS  
 05270951 F1MKX JH05 > JO65 SM7AED  
 06041933 F1FSH JH36 50110.0 CS7CBI

## GERMANY

05080813 DL3RBH 579/559 > IO80JV C G4UPS  
 05080949 DL2DXA 559/559 JO61VC BEREDC G4UPS  
 051018130 DL7ZB 599/559 JO51AE>K14VH W Y07VS  
 0510181446 DL1EMS 579/559 JO31KM C Y07VS  
 05111530 DL3FVG JN48 50.158 SV8CS  
 05181508 DL3DXK J061 > JO65 TROP SM7FJE  
 05181631 DL3AMA 599/559 JO51ND>K14 C Y07VS  
 05181627 DL2HWA 599/559 JO61VC>K14 C Y07VS  
 05181632 DL3DXV 599/559 JO61VC>K14 C Y07VS  
 05181633 DJ4SO 599/559 JO44WG>K14 C Y07VS  
 05181635 DP0BT 599/559 JO62QN>K14 C Y07VS  
 05181640 DL8LV 599/559 JO >K14VH C Y07VS  
 05181648 DL8QX 599/559 JO43K>K14 C Y07VS  
 05181652 DK2EF 559/559 JO43V>K14 C Y07VS  
 05181939 DL3DXK 559/559 JO61VH MAR S G4UPS  
 05182002 DF8AA 599/559 JO60XW WOLF C G4UPS  
 05231505 DL3DXX 55 > IO80JV H G4UPS  
 05231515+DL3DXX 55 > IO80JV H G4UPS  
 05240719 DL1ZU 59/59 JN68 > IO80JV S G4UPS  
 05241516 DP0BT 59/59 JO62Q>K14 C G4UPS  
 05241531 DL9UD 599/559 JO71HR DEITER S G4UPS  
 05241540 DL9USA 59/59 JO71HW ANDY S G4UPS  
 05241738 DL4MM 55/59 JO61VC MAT S G4UPS  
 05241743 DK2EF 559/559 ROLF > IO80 C G4UPS  
 05270950 DL2LVM 55/56 JO61 REINHARD S G4UPS  
 05270951 DL9USA 59 > IO80JV H G4UPS  
 06041309 DJ5JK KM18VA 50109.8 SV1OH  
 06041414 DJ4LW 559/559 50110.0 SM7AED  
 06181800-DK2PR 50110.0 W 4L6PA  
 06181800-DL2NO J043 H 4L6PA

## GIBRALTAR

05151738 ZB3EO IM76 JOHN > IO80JV W G4UPS  
 05181325 ZB2EO 579/559 JM76>IO80JV C G4UPS  
 05190844 ZB2EO 579/559 JM76 JOHN C G4UPS  
 05231922 ZB2IF 59/59 IM76HD > IO80 S G4UPS  
 05250947 ZB2EO 579 WKG G STMS H G4UPS  
 05251000 ZB2IF 55 -1020 > IO80JV H G4UPS

## GREECE

05110827 SV5TS 59/59 KM46CF>K14VH S Y07VS  
 05111441 SV3AQG 59 KM17>J051 50.120 DL3HRM  
 05111451 SVLUG 579/559 KM18>J051 50.125 DL3HRM  
 05111521 SV1SIX 559 50.040 B OB6BMG  
 05111537 SV8CS KM07 50.121 DL2GBT  
 05111648 SV1STH STRONG 50.136 F5TCI  
 05111728 SV7BV5 57 KN21 50.110 H8CUU  
 05131909 SV7BV5 57 KN21>JN67 50.110 OR2UKL  
 05131917 SV3AQG KM17>JN67 50.120 OR2UKL  
 05131920 SV3AQG KM17>JN67 50.121 OR1FRG  
 05131923 SV3KQG 55 KM17>JN49 50.121 DL9GU  
 05131950 SV1SIX 519 > JO50 50.010 B DL4ALI  
 05151538 SV1BRL > JO65 H SM7FJE  
 05151547 SV7BV5 KN21 > JO65 H SM7FJE  
 05151549 SV8QG KM39 > JO65 W SM7FJE  
 05181559 SV7APS KN21 > JO65 SM7FJE  
 05181600 SV7APS KN20 > JO65 SM7AED  
 05181742 SV3AQG KM17 > JO65 SM7FJE  
 05181833 SV3AQG KM17 > JO65 H SM7AED  
 05220720 SV1SIX -0910 KM17UX 50.039 B Y07VS  
 05231117 SV2BV5 KN10 > JO66 SM7AED/ SM7AED  
 05231450 SV1SIX 589 -1502 > IO80JV B G4UPS  
 05231535 SV5CZQ/QRP KM08 > JO65 SM7AED  
 05231628 SV5TS 559/559 KM46 VASSILIS S G4UPS  
 05271719 SV1SIX, SV8IX > JO65 B SM7AED  
 05281715 SV1SIX 569 -1724 > IO80JV B G4UPS  
 06180701 SV1SIX B 4L6PA  
 06180717-SV1LAH W 4L6PA  
 06180717-SV5/DL8SET W 4L6PA  
 06191818 SV1UH W 4L6PA

## HUNGARY

05091122 HA6EB G3HBR  
 05091246 HA6ZB 55/55 JM97 > IO80JV S G4UPS  
 05181802 HA8BE 599/559 KN06QR > IO80 C G4UPS  
 05181811 HA8BE KN06 > JO65 SM7FJE  
 05181812 HA8BE > JO65 SM7AED  
 05231108 HA8BE 55 QSB > IO80JV H G4UPS  
 05271815 HA8BE KN06 > JO65 H SM7AED

## IRELAND

05241237 EI8HE IO64 > JO65 SM7AED

05271150 EI4YB IO52 > JO65 SM7AED

## ISLE OF MANN

05111733 GD3AHV 50.104 C G0DJA  
 05271158 GD4XTT IO70 > JO65 SM7AED  
 05301726 GD3AHV 579/579 IO74 GEORGE C G4UPS

## ITALY

04271123 IKBMKK JH71 > JO54 0E3EW  
 04271145 IK0FTA JH61 > JO54 0E3EW  
 04271147 IK7KGF JH71 > JO54 0E3EW  
 04271153 IK6MLI JH62 > JO54 0E3EW  
 05050919 IK2GSO JH45 > JO65 SM7AED  
 05091905 IM5DX 59 > IO80JV G4UPS  
 05101319 IK7KGF 59/57 JN71QM ALFRED S G4UPS  
 05101321 IOCTUT 52/52 JN61 UGO S G4UPS  
 05111511 I7YBE JN71QO 50.175 F5HGT  
 05111532 I7WSX JN80LW 50.154 F5HGT  
 05121538 IK7XGD 57 > IO80JV H G4UPS  
 05151542 I5SDG 59/59 JN53IT>K14VH S Y07VS  
 05151553 IK6KX 59/59 JN38C>K14VH S Y07VS  
 05151632 IK5RLP 59/59 JN52L>K14VH S Y07VS  
 05151637 I5VOW 59/59 JN52GW>K14VH S Y07VS  
 05151643 I5XDL 59/59 JN52GW>K14VH S Y07VS  
 05151659 IK0FTA 59/59 JN61>K14VH S Y07VS  
 05151703 IOOUU 59/59 JN61>K14VH S Y07VS  
 05151738 IKOWAC 59/59 JN61FW>K14VH S Y07VS  
 05151755 I5SDG 599/559 JN53IT>K14 C Y07VS

05151807 IK7VIY 599/599 JN53IT>K14 C Y07VS  
 05151816 I4CIL 57/57 > K14VH S Y07VS  
 05180815 I4Y4M 599 > IO80JV H G4UPS  
 05181020+IK7XGF 59 > IO80JV H G4UPS  
 05181049 IK0FTA 59/59 JN62Q>K14VH S G4UPS  
 05181108 IKOBAL 59/59 JN62F MARCO S G4UPS  
 05181124 IKSGQ 59/59 JN53JS MARCO S G4UPS  
 05181403 IK0VAQ 59/59 JN61KX ALEX S G4UPS  
 05181452 IK8GCY JH73 > JO65 SM7AED  
 05181513 IK7BFD JH71 > JO65 SM7AED  
 05181603 I4XCC 599/559 > K14VH C Y07VS  
 05181616 IK9OMI 559/559 JN40>K14VH C Y07VS  
 05181643 IK2JUW 599/559 JN45NC>K14 C Y07VS  
 05181712 IK3EEH 59/59 > K14VH S Y07VS  
 05181747 I55DG 59/59 > K14VH S Y07VS  
 05182014 I7WAL 58/58 JN781K > IO80JV S G4UPS  
 05182044 IK4ADK 59/59 JN53 > IO80JV S G4UPS  
 05182233 I STILL IS STRONG H G4UPS  
 05190933 IK4BHO 59/59 JN65 > IO80JV C G4UPS  
 05191440+I8TWK 59 > IO80JV H G4UPS  
 05191625 IK5SQB JH53 > JO65 H SM7AED  
 05191646 IK8MKK JH71 > JO65 H SM7AED  
 05191655 I2MBS JH54 > JO65 H SM7AED  
 05191700 I75WX JH89 > JO65 H SM7AED  
 05191702 IK3KXK JH55 > JO65 H SM7AED  
 05191707 IK5RDL 59/59 JN52LR CLAUDIO S G4UPS  
 05200837 IK0RQJ 599/559 JN61XX C G4UPS  
 05201713 IK0PTA, IK0JX, IK0JMT H SM7AED  
 05201727 IK6CXD JH63 > JO65 H SM7AED  
 05201731 IK4MBN JH64 > JO65 H SM7AED  
 05201738 IK0VAQ JH61 > JO65 H SM7AED  
 05201742 IK8RMA JH70 > JO65 H SM7AED  
 05201752 I5MXX JH53 > JO65 H SM7AED  
 05211730+I0CIL 59 > IO80JV H G4UPS  
 05211804 IK7XGF, IK7XGD JH71 > JO65 H SM7AED  
 05211819 IK7VY 559/559 JN71QT C G4UPS  
 05220885 IK2QDX 59/59 BERGAMO >K14 H SM7AED  
 05220895 IK2KML 59/59 JN45TR>K14VH S Y07VS  
 05220937 IK8NRA 59/59 JN70ES -0945 S G4UPS  
 05221020 IC8CQF 579 WKG SP/PA -1050 H G4UPS  
 05221036 IC8CQF JH70 > JO65 H SM7AED  
 05231210 IOAMU 59/59 JN61 > IO80JV S G4UPS  
 05231221 I5SDG 59/59 JN53IT HEC S G4UPS  
 05231225 IOVHL 59/59 JN62IR CEASAR S G4UPS  
 05231410+IK0PTA 59 > IO80JV H G4UPS  
 05231510 IOMYE 59/59 JN52 MAURIZIO S G4UPS  
 05231720 IK3TPP 59/59 JN65EP FABIO S G4UPS  
 05231830 I2AB 59/59 JN53B > IO80JV S G4UPS  
 05231832 IK5ZUL 59/59 JN52JW QSB S G4UPS  
 05241059 IK2OF0/2 59/59 JN44PV BOB S G4UPS  
 05241550 IK5WTF 59/59 JN53DV ALBERTOS G4UPS  
 05241732 IK0PTA 59/59 JN61 TONY S G4UPS  
 05251151 IK6GCO 599/559 QSB C G4UPS  
 05251152 IK0OKY 59/59 JN61 EMIL S G4UPS  
 05261515 IK0PTA 57/57 JN61 SERGIO S G4UPS  
 05261519 IK7UXY 59/59 JN89DX JOHN S G4UPS  
 05261522 IK7XGD 57/57 JN71QT C G4UPS  
 05271348 I3LHL WKG VE1ZE > JO65 H SM7AED  
 05281620+IK8EVE 59, I5XDS 59 > IO80JV H G4UPS  
 05281644 IK4CDJ 59/57 JN64CJ ROBERT S G4UPS  
 05281700 I4ZCQF JN64, IK0MYE JN62 H SM7AED  
 05281700+IK5SPV, IK3ZQB JN53 > JO65 H SM7AED  
 06011647 IK9LFR 59/59 JN > K14VH S Y07VS  
 06011650 IK8RO 59/59 JN88F>K14VH S Y07VS  
 06031922 IOJX 44 9G1YR  
 06041511 IW5AVM in3lpe - 50110.0 H CT1DYX

## JAN MAYEN

05142015 JX7DFA IQ500V 50.110 B GM4  
 05202115 JX7DFA > IO90 H G3HBR

## JERSEY

04281309 GJ7LJJ IM89 > JO54 0E3EW  
 06041616 GJ4ICD 89+++++ 50110.0 EH8ACW  
 06041704 GJ4ICD loud 50110.0 CT3FT

## LATVIA

05201109 YL1XX 579/579 KO26 > IO80 C G4UPS

05231206 YL1XX 559/559 KO26>K14VH C Y07VS

05231505+YL3AG 579 > IO80JV H G4UPS

05240750+YL1XX 599 > IO80JV H G4UPS

## LITHUANIA: G4UPS was surprised to

hear LY2HM calling CQ on 50.205, and

worked him during a short opening. QSL

via PO Box 47, Telsiai 5610,

LITHUANIA.

## MACEDONIA

05111515 X32DR KNO1RX>JN12FE 50.105 EH3CUU

## MALTA

04271128 9H5DM JH75 > JO54 0E3EW  
 05111231 9H5DM 55 > JO41 50.110 0E3EW  
 05111237 9H1SIX >JO50 50.025 B DL4ALI  
 05111330 9H5DM JN75FU 50.115 D4FPI  
 05111420 9H5DM 57 > JO51 50.115 DL3HMR  
 05111505 9H1BT 59 50.139 E3L3HMR  
 05111610 9H5DN 55/55 JN75FU JAS0 S G4UPS  
 05111643 9H1AL JN75 50.105 PA3GML  
 05111744 9H1SIX 579 JN75 50.024 B G3IBI  
 05131656 9H1ET 51 > JN76PM 50.110 0E6LOG

05151705 9H1PA, 9H1AL, 9H5DR H SM7FJE  
 05181436 9H1GP JM75 > JO65 SM7AED  
 05181436 9H5EE JM75 > JO65 SM7AED  
 05181445 9H1AS JM75 > JO65 SM7AED  
 052020736 9H1SIX -0820 JM75 50.0235 B Y07VS  
 05261406 9H5ET 57/57 JM75GU BRIAN S G4UPS  
 05261408 9H5EE 55 > IO80JV H G4UPS  
 05261533 9H5DM 57/57 JM75FU JASOB S G4UPS  
 06040800 9H1SIX -0825 JM75FV 50.024 B Y07VS

## MOLDAVIA

05181518 ER5WU KN45 > JO65 SM7FJE  
 05181521 ER5GB KB45 > JO65 SM7AED  
 05181522 ER5WU KB45 > JO65 SM7AED  
 05181610 ER5AA KB45 > JO65 SM7AED  
 05181636+ER5AA 55 > IO80JV H G4UPS  
 05181636+ER5OK 55 > IO80JV H G4UPS  
 05191827 ER5OK 59 BRIEFLY > IO80JV H G4UPS  
 05192015 ER5WU 559 WKI 5 > IO80JV H G4UPS  
 05192211 ER5WU 579/559 KN45CW > IO80 C G4UPS  
 05231112 ER5OK KN46 > JO66 SM7AED/  
 05240513 ER5AA KB45 > JO65 SM7AED

## NETHERLANDS

05091205 PA3GFT 599/519 JO21BK C Y07VS  
 05101230 PA3FYM -1507 50.0525 B Y07VS  
 05101257 PE1FVL 59/59 JO32D>KN14VH S Y07VS  
 05101315 PA3GML 59/58 JO22>KN14VH S Y07VS  
 05101318 PA0HIF 599/599 JO21JO C Y07VS  
 05101325 PA2TAB 599/599 JO32GF C Y07VS  
 05101326 PA3GML 599/599 JO22>KN14VH C Y07VS  
 05101327 PA0HIF 59/59 JO21JO>KN14VH S Y07VS  
 05101330 PA2CHR 55/53 JO22AX>KN14VH S Y07VS  
 05101333 PE1GNP 59/55 JO32IX>KN14VH S Y07VS  
 05101445 PA3ANV 599/559 JO32HC C Y07VS  
 05101505 PA3FYM 59/55 JO22OF>KN14VH S Y07VS  
 05131813 PA2VST CLG CQ DX 50.110 H D6DTK  
 05181657 PA2VST 599/599 JO21UJ>KE14 C Y07VS  
 05181732 PA3GQW 599/579 JO41>KN14VH C Y07VS  
 05241055+PA2VST 599 CLG DX > IO80JV H G4UPS  
 05241208 PA3GML JO22 > JO65 SM7AED  
 06091400-PA3DWD > EL79 C K6EID/4  
 06181800-PA3DWD JO23 W 4L6PA  
 06181800-PA0COR, PE1LCH W 4L6PA

## NORTHERN IRELAND

05241243 GI8FLQ IO74 > JO65 SM7AED  
 05271319 GI6ATZ IO64 > JO65 H SM7AED

## NORWAY

05231547 LA2TAA 59/59 JO59IX TED S G4UPS  
 05240856 LA6LU JP20 > JO65 SM7AED  
 05271044+LA8AV 59 > IO80JV H G4UPS  
 05271056 LA4GIA 59/59 JP50CE STEIN S G4UPS  
 05271111 LA2BO 599/599 JO59CD STEIN C G4UPS  
 05271203 LA9DM 59/59 ELLIF > IO80JV S G4UPS  
 05271228 LA8WF 59/59 JO59GV JOHN S G4UPS  
 05301702 LA1LC 579/559-57/57 W G4UPS  
 05301707 LA8WF 579 -1712 > IO80JV H G4UPS

## POLAND

05091335 SP6GKZ 59 BRIEFLY > IO80JV H G4UPS  
 05091426 SP6LB 339 QSB > IO80JV C G4UPS  
 05091635 SP2NJE 55 > IO80JV C G4UPS  
 05091637 SP56S 59/59 KN02HH ANDY S G4UPS  
 05091955 SP9MCY, SP9UBK 55 > IO80JV H G4UPS  
 05101340 SR5SIX 569 > IO80JV B G4UPS  
 05101454 SP9QZJ 55 > IO80JV H G4UPS  
 05111173 SP9MCY 59, SP9QEJ 59 > IO80 H G4UPS  
 05171040 SR5SIX 599 -1046 > IO80JV B G4UPS  
 05181636+SP5HEJ 579 > IO80JV H G4UPS  
 05181650 SP6TRQ 59/59 JO81BB > IO80 S G4UPS  
 05181716 SP3MFJ 59/59 JO91BS>KN14VH S Y07VS  
 05181813 SR6SIX 599 > IO80JV B G4UPS  
 05181959 SP9SOX 59/58 JO90MO KRIST S G4UPS  
 05191717 SP4MPB BACKSCATTER > JO65 H SM7AED  
 05191815+SP5HEJ 599 > IO80JV H G4UPS  
 05191834 SP5CPC 59/59 KO20MP TOM S G4UPS  
 05191847 SP2NJI 59/59 JO92MP WIERSLAWS G4UPS  
 05192130+SR5SIX 579 > IO80JV B G4UPS  
 05192138 SP5SS 599/599 KO20RH > IO80 C G4UPS  
 05192142 SP9PSD 59/57 JO90GC > IO80 S G4UPS  
 05192142+SP5MCY 59, SP6TRQ 59 > IO80 H G4UPS  
 05192200 SP2IQW 59/59 JO94GM MIKE S G4UPS  
 05192203 SP4MPB 599/599 KO03 > IO80 C G4UPS  
 05192303 SP6TRQ STILL IN > IO80JV H G4UPS  
 05200837+SP7TEE 59 > IO80JV H G4UPS  
 05200929 SP9HWY 599/599 JO90BH JUREKC G4UPS  
 05200930+SR6SIX 579 > IO80JV B G4UPS  
 05201528 SP6LB 559 > IO80JV H G4UPS  
 05201529 SR6SIX 579 > IO80JV B G4UPS  
 05201536 SP6VXO 59/59 JO81LD WAS S G4UPS  
 05201548+SP2IQLN 59, SP6TRQ 59 > IO80 H G4UPS  
 05201548+SP4MPB 57 > IO80JV H G4UPS  
 05201627 SP7DSB 59/59 JO91QK GEORGE S G4UPS  
 05210953 SP6LB 57/57 JO70UU > IO80JV S G4UPS  
 05231410+SP5MCY 59 > IO80JV H G4UPS  
 05231449 SP9MRK 59/59 JO90NH RICHARDS G4UPS  
 05231450+SP6GRLA 59 > IO80JV H G4UPS  
 05231458 SP4XMU KN02 > JO65 SM7AED

05231524 SP6GKZ 59/59 JO81MD ADAM S G4UPS  
 05231540+SR6SIX 579 > IO80JV B G4UPS  
 05231540+SR6SIX 599 > IO80JV B G4UPS  
 05231703 SP5ASL 599/599 KO02 STEVE C G4UPS  
 05231713 SP6GEFY 59/59 JO81 JOHN S G4UPS  
 05231851 SP3MFJ 59/57 JO91BS JOHN S G4UPS  
 05240729 SP9MRT 599/599 JO90KH C G4UPS  
 05241118 SP8QET 59/59 KO11 JACK S G4UPS  
 05241619 SP6VXO 59 > IO80JV H G4UPS  
 05270930 SP6LB 55 > IO80JV H G4UPS  
 05270940 SP6SOT 599/599 JO90MG KRISTIC G4UPS  
 05271004 SP7TEE 59 > IO80JV H G4UPS  
 05271004+SR6SIX 559 > IO80JV B G4UPS

## PORTUGAL

05111510 CT0WV 599>JO65 50.030 B 031CDE  
 05111515 CT0WV > JO65 B SM7FJE  
 05121635 CT0WV 599 -1740 > IO80JV B G4UPS  
 05121635 CT0WV 59/59 IN60IM RICARDOS G4UPS  
 05131715 CT1CBI 59 > JN48 50.112 DL8SET  
 05131737 CT1BGE IM58 50.120 HB9STY  
 05131738 CT1BGE IM58 50.110 ON4GG  
 05131751 CT0WV 50.030 B IK3OC  
 05131806 CT1BH IM91QD 50.120 HB9CXZ  
 05131814 CT1CBI IM59HI 51.112 HB9STY  
 05131817 CT1DMX 59 50.110 OE6LOG  
 05131828 CT1DYX 59/59 IO93 > IB51 50.130 2EA0AJE  
 05131840 CT1FJC 59 > IO80JV H G4UPS  
 05131841 CT1FJC IM57 50.116 GWTSMV  
 05131847 CT1CBI 57 > IO93 50.112 2EA0AJE  
 05131903 CT0WV 599+ > IO80JV B G4UPS  
 05131908 CT1DYX 59/59 IN51PE PEDRO S G4UPS  
 05131917 CT0WV 59+ > IO93 50.030 B G4RQI  
 05131925 CT1AUW 59 -1940 > IO80JV H G4UPS  
 05171117 CT0WV 559 -1121 > IO80JV B G4UPS  
 05181335 CT0WV 569 > IO80JV B G4UPS  
 05191440+CT0WV 599+ > IO80JV B G4UPS  
 05191450 CT1DX 59/59 IN51PE PEDRO S G4UPS  
 05191453 CT1EHO 59/59 IM58JT > IO80 S G4UPS  
 05191530 CT1BWU 59/59 IM58QE JOHN S G4UPS  
 05191551 CT1DHM 59/59 IN61CC JOSE S G4UPS  
 05191620 CT0WV > JO65 B SM7AED  
 05191815 CT0WV 599 > IO80JV B G4UPS  
 05191853 CT1WV 59/59 TIAGO > IO80JV S G4UPS  
 05231450+CT0WV 599 -1502 > IO80JV B G4UPS  
 05231615+CS7CBI 59 > IO80JV H G4UPS  
 05231912+CT0WV 559 B G4UPS  
 05241515 CT0WV IM61 > JO65 B SM7AED  
 05261418 IC1LC 599/599 IM58JR PAUL C G4UPS  
 05281605 CT1BQ 599/599 IM59 CARLOS C G4UPS  
 05281608 CT0WV 599 > IO80JV B G4UPS  
 05281615 CT4OP 57/57 IM59PF CARLOS S G4UPS  
 05291615 CT0WV 559 IN/OUT > IO80JV B G4UPS  
 06120202 CT TV IM81 > FM43 48.242 V WA1OUB  
 06151214 CT0WV STRONG -1132 50.030 B WA1OUB

05201548 YT1AU 599/599 KN04 ZIKA C G4UPS  
 05201548+YU1VG 59 > IO80JV H G4UPS  
 05201639 YU1QC 579 > IO80JV H G4UPS  
 05211730+YT1AU 579 > IO80JV H G4UPS  
 05213105 YU1VG 579 > IO80JV H G4UPS  
 05231535+YT1AU 599 > IO80JV H G4UPS  
 05241351 YT1AU KN04 > JO65 SM7AED  
 05261556 YT1AU 59/55 KN04CP ZIKA S G4UPS  
 05281720 YT1AU 59/59 KN04CP ZIKA S G4UPS

## SICILY

04271105 IT9KSS JM68QD > JO54 OZ3EW  
 05111237 IT9WAH JM77NO>JO32 50.159 DL5BBW  
 05111317 IT9WBH JM67VN 50.158 PA2VST  
 05111326 IT9KSE ZO21>JM68 50.155 PE1EBJ  
 05111329 IT9WPZ JM68PE 50.160 PA2VST  
 05111505+IT9KSS 55, IT9PMZ 57 H G4UPS  
 05111531 IT9UQW JM76 50.158 OE5PAM  
 05181440 IT9CHU JM76 > JO65 SM7AED  
 05190737 IT9PME 59/59 JM68PE RAI S G4UPS  
 05231207 IT9PME 55 > IO80JV H G4UPS  
 05261410 IT9CHU 59/55 JM76 VINCE S G4UPS  
 06011646 IT9CHU 59/59 JM76IE>KN14VH S Y07VS  
 06011658 IT9NAM 59/59 JM77QB>KN14VH S Y07VS  
 06011700 IT9PME 59/59 JM68PE>KN14VH S Y07VS  
 06011707 IT9QDM 59/59 JM68PE>KN14VH S Y07VS  
 06011707 IT9KES 59/59 JM67ST>KN14VH S Y07VS

## SLOVAKIA

05181646 OM3BHO 599/599 JN99FE>KN14 C Y07VS  
 05191641 OM3BH 59/59 JN99FE RASTO S G4UPS  
 05231136 OM3XI 59/57 JN88US PAVEL S G4UPS  
 05231410 OM3LAG 57/55 JN99 > IO80JV S G4UPS  
 05231410+OM3OM 559 > IO80JV H G4UPS  
 05231521 OM7SM 59/59 JN98KO S G4UPS  
 05241226 OM7SM JN98 > JO65 SM7AED  
 05241722 OM3OM 59/59 KN08QJ JULIO C G4UPS  
 05270915 OM3XI 59/59 JN88UI PAVEL C G4UPS  
 06041535 OM3PC KM07 50110.0 SV8CS

## SLOVENIA

05050751 S59A 579/559 JN76 DRAGO C G4UPS  
 05050759 S59A JN76 > JO65 SM7AED

05101354 S51MO 59/59 JN75N BORIS S G4UPS

05101405 S51UJ 59/59 JN76BI C G4UPS

05101405 S55ZRS 599C > IO80JV B G4UPS

05101511 S53ZM 59/59 JN86BZ DRAGO C G4UPS

05101522 S57A 59/59 JN76TW BORIS S G4UPS

05101530 S53BB 59/59 JN76HF BORIS S G4UPS

05120830 S55ZRS 599+ > IO80JV B G4UPS

05121538 S53BB 559 > IO80JV H G4UPS

05180815 S55ZRS & 1020 > IO80JV B G4UPS

05180938 S57AC 57/57 JN76TW BOJAN S G4UPS

05181015 S53BB 59/59 JN76HF BORIS C G4UPS

05181020 S53FO 59/59 JN76ID TOMI S G4UPS

05181608 S51GW 59/59 JN76TQ>KN14 C Y07VS

05181623 S53BH 59/59 JN65UO>KN14 C Y07VS

05181638 S53FO 59/59 JN76ID>KN14 C Y07VS

05181714 S53BH JN65 > JO65 SM7FTE

05182026 S53BH 57/59 JN75TV DUSAH S G4UPS

05190808 S52R 59/59 JN7500 TOBE S G4UPS

05191625+S57AC 59 > IO80JV H G4UPS

05191723 S52R JN75 > JO65 SM7AED

05200700+S55ZRS 599 > IO80JV H G4UPS

05200730+S53BZ 57 > IO80JV H G4UPS

05211613+S52NR 59, S57C 59 > IO80JV H G4UPS

05211835 S52CO, S59A JN76 > JO65 H SM7AED

05231015 S57AC 449 > IO80JV H G4UPS

05241340+S53ZM 59 > IO80JV H G4UPS

05241420 S51GW 599/599 JN76TQ VILKO C G4UPS

05261401 S58J 559 > IO80JV H G4UPS

05261402 S55ERS 559 -1420 > IO80JV B G4UPS

05281700 S55ERS 559 > IO80JV B G4UPS

05281713 S52Z 57/57 JN750W > IO80JV S G4UPS

06041515 S59F in jn65tx 50110.0 EH1YV

06041614 S51MQ 59/59 50111.0 EH1TA/P

06041928 S59F 50110.0 CS7CBI

## SPAIN

04281212 EH2LUW JN82 > JO54 OZ3EW  
 04281128 EH1EH JN82 > JO54 OZ3EW  
 05051119 EH1EH 559/559 S G4UPS  
 05091611 EH7K 59/59 IM67TB JUAN S G4UPS  
 05091617 EH4C0H 59/59 IN82 > IO80 S G4UPS  
 05091630 EH7AJ 599 > IO80JV H G4UPS  
 05111342 EH3ADW 57 JN11CQ>KN14VH S Y07VS  
 05111343 EH3IH 57/59 JN11CQ>KN14VH C Y07VS  
 05111352 EH3CHM 57/57 JN11CQ>KN14VH S Y07VS  
 05111355 EH3CHM 59/55 JN11CQ>KN14VH S Y07VS  
 05111430 EH1DAW 59/59 JN056 DL45AJ  
 05111640 EH3CUU JN12 > JO65 50.056 B SM7FJE  
 05111643 EH3CZ JN11 > JO65 SM7FJE  
 05111652 EH1EH JN82 > JO65 SM7FJE  
 05121145 EH3CUU -1345 JN12FE 50.056 B Y07VS  
 05121529 EH2JCO JN83 > JO65 SM7FJE  
 05121557 EH7K 599/599 IM67KI JOSÉ C G4UPS  
 05131515 EH7K 599/599 IM67KI JOSÉ 50.115 G3IBI  
 05131711 EH7DEI 57 IO91 50.110 GOLCS  
 05131721 EH7BVD 59/59 IM67 LSB 50.122 OB4ART  
 05131724 EH7K 599/599 IM67 LSB 50.131 ON4ANT  
 05131735 EH7AB IM67 50.140 ON4GG  
 05131740 EH7DBH 59/59 IM67 > IO80JV S G4UPS  
 05131740 EH7KF IM67 50.137 DL4ALI  
 05131747 EH7AH 59+ 50.140 G3EVO  
 05131801 EH5CHT > IO80JV H G4UPS  
 05131803 EH7K 579/559 IM67XK JUAN C G4UPS  
 05131808 EH7CHT IM97 50.110 GW7SKV  
 05131811 EH7KF 579 WKG PA2 50.109 B 208AE  
 05131842 EH1EH 50.210 F6IMS/9

## SCOTLAND

05111458 SP6FKP IO7580 50.120 EA3DUW  
 05271224 GM4ISM > JO65 SM7AED  
 05271410 GM4WEL/M WKG VE1AEC > JO65 H SM7AED

## SERBIA

05050947 YT1AU MS > JO65 H SM7AED  
 05101355 YU1SIX 599 > IO80JV B G4UPS  
 05101404 YU1VG 579/579 JN94US VASA C G4UPS  
 05111651 YU1QC 559/559 KNO4FU IVAN C G4UPS  
 05181002 YU1ABA 579/579 KNO4 IM67 50.120 G4UPS  
 05181004 YU1BW 599/599 KNO4OO RAYA C G4UPS  
 05181076 YU1ABA KNO4 > JO65 SM7AED  
 05181736 YU1VG JN94 > JO65 SM7FJE  
 05181813 YU1QC 57 > IO80JV H G4UPS  
 05190737+YU1QC 59 > IO80JV H G4UPS  
 05191625+YU1RQ 579 > IO80JV H G4UPS  
 05200730 YU1VG 59+59 JN94/599 RASA S G4UPS  
 05200825 YU1ABA 579 > IO80JV H G4UPS

05131905 EH7AH 57 CLG CQ 50.107 GOJHC  
 05131908+EH7AH 59 > IO80JV H G4UPS  
 05131925 EH7AH IM67OG 50.107 GM4DGT  
 05131947 EH1YV 59 IN52 > JO20 50.110 OMEX  
 05131948 EH1EHP IN51 > JO33 50.129 R PEILAU  
 05151712 EH3IH 599/569 JN11B>KE14 C YOTVS  
 05151712 EH7KW 59 59 > IO80JV H G4UPS  
 05151737 EH7DBH 59/59 IM86 > IO80JV S G4UPS  
 05151751 EH5CHC IM97KB BOB > IO80JV W G4UPS  
 05151751+EH7BVD 59, EH7CD 59 > IO80 H G4UPS  
 05152042 EH7AH 59/59 IM67OG MEL S G4UPS  
 05181125 EH3UJM JN01 > JO65 SM7FJE  
 05181135 EH7BIH IM87 > JO65 SM7FJE  
 05181321 EH7KW 599/599 > IO80JV C G4UPS  
 05181325 EH5EII 59/59 IM99CA JOSE S G4UPS  
 05181329 EH5EI 59/59 IM98 > IO80JV S G4UPS  
 05181329 EH7AJ 59 > IO80JV S G4UPS  
 05181627 EH3CUU 599/599 JN12FE>KH14 C YOTVS  
 05182121 EH1EH 599/599 IM82PB > IO80 C G4UPS  
 05190729 EH3BTD 59/59 JN12FE > IO80 S G4UPS  
 05190757 EH3ECE 59/59 JN01LJ > IO80 S G4UPS  
 05190920+EH5CD 57 QSB > IO80JV H G4UPS  
 05191440 EH1YV 59/59 IM52 AGUS S G4UPS  
 05191459 EH1B 59/59 IM52VE ANGEL S G4UPS  
 05191518 EH2LU 599/599 IM92 GEORGE C G4UPS  
 05191708 EH1EH IN82 > JO65 H SM7AED  
 05191853+EH7KF 579 > IO80JV H G4UPS  
 05191930+EH1DA 55, EH7BIH 59 > IO80 H G4UPS  
 05201035 EA3VH 599 > IO80JV B G4UPS  
 05201035 EH3CUU 599 50.056 B G4UPS  
 05201055 EH2LU 599/599 IN92 > IO80 C G4UPS  
 05201727 EH3ECE JN01 > JO65 H SM7AED  
 05201740 EH3CUU JN12 > JO65 50.056 B SM7AED  
 05201741 EH3DUY JN12 > JO65 H SM7AED  
 05211912 EH3DVU 59/59 JN01OV > IO80 S G4UPS  
 05211920 EA3VH 599 -1940 > IO80JV B G4UPS  
 05220740 EH3CUU -1100 JN12FE 50.055 B YOTVS  
 05231425 EH7KW 599/599 > IO80JV C G4UPS  
 05231907 EH5BES 59/59 IM99XX JOHN S G4UPS  
 05241218 EH3CUU 559/539 JN12FE C G4UPS  
 05250940+EH3HJ 579 > IO80JV H G4UPS  
 05251130 EH3AND JN12 > JO65 H SM7AED  
 05251139 EH3DUV JN12 > JO65 H SM7AED  
 05281609 EH1DAV 599 > IO80JV H G4UPS  
 06031112 EH3CUU 599/599 JN12FE>KH14 C YOTVS  
 06031140 EA3VHF -1455 JN01 50.070 B YOTVS  
 06031158 EH1EH 59/59 IM82PO>KH14VH S YOTVS  
 06040808 EA3VHF -1025 JN01 50.070 B YOTVS  
 06040908 EH3HJ 599/579 JN11B>KE14 C YOTVS  
 06041710 EA7KWW cq 50110.0 9HIGP  
 06120202 EA TV IN80 > FP43 48.250 V WA1QUB  
 06121402 EH1YV -1420 > FP43AD W WA1QUB  
 06202241 EH1YV W CY0AA

## SWEDEN

05050726 SM7AED 599/599 >IO80JV C G4UPS  
 05060740 SM7AED 599/599 >IO80JV C G4UPS  
 05080750 SM7AED 599/599 C G4UPS  
 05181602 SM0MFT 599/599 JO89WK>KH14 C YOTVS  
 05181656 SM1ALH 579/599 JN097>KH14VH C YOTVS  
 05181702 SM7AED 599/599 JN065>KH14VH C YOTVS  
 05200952 SM1LPU 59/59 JN097CK STEVE S G4UPS  
 05200955 SM7VHS 59/59 JN076LM MARTIN S G4UPS  
 05230530 SK3SIX -0645 JP72 50.0699 B YOTVS  
 05231534 SM7AED 59/59 JN065 > IO80JV S G4UPS  
 05231615 SM3BIU 59 > IO80JV H G4UPS  
 05240803 SM7VHS 59 > IO80JV H G4UPS  
 05240940+SM5UFB 59, SMOCMH 59 H G4UPS  
 05241157 SM0RKC 59/59 JN095AK ROBIN S G4UPS  
 05241351+SM7FJE 569 > IO80JV H G4UPS  
 05241452 SM7AED 59/59 JN065 > IO80JV S G4UPS  
 05260932 SM7VHS 55 CLO CQ > IO80JV H G4UPS  
 05271015 SM0MFT 59/59 JN089WJ JAH S G4UPS  
 05271031 SM7JJE 59/59 JN065 BO > IO80 S G4UPS  
 05271040 SK3SIX 599 > IO80JV B G4UPS  
 05271044+SK3SIX 599 > IO80JV B G4UPS  
 05271057 SM3EQV 59/59 HAKAN > IO80 S G4UPS  
 05271113 SM7AED 59/59 JN065 ARNE S G4UPS  
 05271655 SK3SIX -1900 JP71XF50.0699 B YOTVS  
 05301646 SM3EQY 59/59 JP81FI HAKAN S G4UPS  
 05301647 SK3SIX 559 > IO80JV B G4UPS

## SWITZERLAND

05111534 HB9WJK JN36 50.121 SV8CS  
 05181450 HB3SJ > JO65 B SM7AED  
 05181552 HB9AM 59/59 JN47SD>KH14VH S YOTVS  
 05181612 HB9AOF 55/59 JN36AD>KH14VH S YOTVS  
 05181637 HB9DBM 599/599 JN47CD>KH14 C YOTVS  
 05182106 HB9CXE 59/59 JN46LD LOUIS S G4UPS  
 05240928 HB0LL 33 WKG ES2RJ H G4UPS

## UKRAINE

05181523 UXOFF KH45 > JO65 SM7FJE  
 05181527 UXOFF KH45 > JO65 SM7AED  
 05211730 UXOFF 55 > IO80JV H G4UPS

## VATICAN

05091230 HV3SJ 449 B G4UPS  
 05091905 HV3SJ 559 > IO80JV B G4UPS  
 05101300 HV3SJ 579-599 > IO80JV B G4UPS  
 05111749 HV3SJ 559 > JO56 50.004 B OE5AGJ  
 05120925 HV3SJ 579 -0932 > IO80JV B G4UPS  
 05181020+HV3SJ 579 > IO80JV B G4UPS  
 05190920 HV3SJ 599 & 1440 > IO80JV B G4UPS  
 05191707 HV3SJ > JO65 B SM7AED  
 05200700+HV3SJ 599 > IO80JV H G4UPS  
 05201713 HV3SJ JN61 > JO65 B SM7AED  
 05211730+HV3SJ 599 > IO80JV B G4UPS  
 05220920 HV3SJ 599 & 0945 > IO80JV B G4UPS  
 05231155 HV3SJ 599 > IO80JV B G4UPS  
 05241018+HV3SJ 599 > IO80JV B G4UPS  
 05250825 HV3SJ 599 -1020 > IO80JV B G4UPS  
 05251130 HV3SJ 579 > IO80JV B G4UPS  
 05261428 HV3SJ 559 > IO80JV B G4UPS

05271130 HV3SJ JN61 > JO65 B SM7AED  
 05281620 HV3SJ 569 > IO80JV B G4UPS  
 06030845 HV3SJ -1120 JN61FV 50.0045 B YOTVS  
**WALES**  
 04281433 GW IOT70,72,81,83 > JO54 OEE3EW  
 051319226 GW0PLP 59 IOT7RC>IM57XX EATKF  
 05201010 GW3LDH BACKSCATTER > JO65 SM7AED  
 05240856 GW4VEQ IOT73 > JO65 SM7AED  
 05271122 GW0IXK IOT71 > JO65 SM7AED

## Reports of North America

This month's TV and FM DX report via Es were submitted by Danny Oglethorpe of Shreveport, LA; Jeff Kruszka, Baton Rouge, LA; Pat Dyer, WA5IYX, of San Antonio, TX, Randy Miltier, KK6TQ7, Ashland, OR. The following reports were received via the DX Online Weekly News, Kurt A. Richardson, Syracuse, NY, Editor: Doug Smith, W9WI/4, Pleasant View, TN; Rick Shaftan, Sparta, NJ; Jeff Kitsko, Latrobe, PA; Jim Renfrew, Rochester, NY; and Michael Jeziorski, Crescent City, FL.

**North America, General:** VE6NM reports on June 21 at 1608 UTC hearing an unknown type of repetitive "chirp" transmissions on 50.0745 when his beam was pointed SW (at the same time he was hearing K6FV and KE7NS). If direct path, this would point to CA or the Pacific Ocean. Kirabati???

## ALASKA

05292013 KL7HO 56 R6QXY  
 06180635 KL7HO BP54 > CH85 W KJ7HB  
 06211839 AL7OC BP65 50.125 AB6FY

**BAHAMAS:** During the 5 days WA4VCC, K4MQG, and AA4R operated from C6AFR, Grand Bahama Island (FL06), they made 1088 QSOs on 50 MHz and above and worked 197 different grid squares. Best 6m DX was W6 & W7, no Europe, unfortunately.

During the June VHF QSO party, they made 656 QSOs on 6m in 151 grid squares.

They indicated their QTH was awesome—right on a point surrounded by the ocean, with their shack in the living room looking out at the sea and their antennas mounted on the roof of a 3-story condo. QSL manager is K4MQG, Gary Dixon. SASEs, of course.

06090044 C6AFR FL06 > EM29RE 50 KOTLM  
 06091600 C6 R6QXY  
 06092321 C6AIE 55 FL16 R6QXY

**CAYMAN IS.:** By the time you read this, WB8YFE should have completed his ZF2RK operation from Grand Cayman Is. (June 25-July 2). QSLs to WB8YFE.

05242105 EF1DC H WB4WTC

**CANADA, Eastern**

05111705 CKPR 2 ON	1130 T OGLETHORPE
05142022 VE8BY 55+ FP53RS > FNB85QR B VE1PZ	
05201420 CHBX 2 ON	1098 T OGLETHORPE
05201540 CKC02 2 ON	1103 T OGLETHORPE
05220238 CKC02 2 ON	1103 T OGLETHORPE
05222050 CKC02 2 ON	1103 T OGLETHORPE
05222100 CIII4T 4 ON Global	T OGLETHORPE
05222210 CIIII4T 4 ON Global	T OGLETHORPE
05230100 CFAP 2 PQ > IL	938 T ECKBERG

05231730 CKPR 2 ON 1130 T OGLETHORPE  
 05242125 CIIII2 2 ON Global 1130 T OGLETHORPE  
 05242210 CHFD 4 ON TBT 4&6 1130 T OGLETHORPE  
 05242210 CKPR 2 ON 1130 T OGLETHORPE  
 05251505 CKPR 2 ON More of 1130 T OGLETHORPE  
 05272230 CBLYT 5 ON More of 1130 T OGLETHORPE  
 05280810 CHBX 2 ON MCTV/BBS 1130 T OGLETHORPE  
 05281820 VE1PX 559 IN/OUT 50.053 B G4UPS  
 05281845 VE1YX 59/59 FN74PJ BOB S G4UPS  
 05281859 VEIRAA 57/55 FN884 > IO80JV S G4UPS  
 05281903 VE9AA 559/519 FN65 MIKE C G4UPS  
 05281929 VE1X 559/579 FN884 JACK C G4UPS  
 05282140 CIIIZ 2 ON Global Wx 1225 T OGLETHORPE  
 05282345 CKCW 2 NB > IL 1221 T ECKBERG  
 05291835 CBGAT 2 PQ CARLETON > NJ T SHAFTAN  
 05311945 CIIIZ 2 PQ 1414 T OGLETHORPE  
 05312205 CKC02 2 ON 1103 T OGLETHORPE  
 06032210 CKPR 2 ON TBT Nx 1130 T OGLETHORPE  
 06072253 VE1L 2 ON 50.1148 S K4AUFP/J6  
 06081755 CKPR 2 ON 1130 T OGLETHORPE  
 06082209 VE9AAA FN65 > EM29RE 50 KOTLM  
 06090305 CKC02 2 ON 1103 T OGLETHORPE  
 06090230 CKC02 2 ON 1103 T OGLETHORPE  
 06110010 CBFT 2 PQ 1414 T OGLETHORPE  
 06120204 CIME QU 1190 > FL 99.5 F JEZIORSKI  
 06120215 CJFM QU 1172 > FL 95.9 F JEZIORSKI  
 06120227 CHIE OH 1129 > FL 106.1 F JEZIORSKI  
 06170335 CIIIZ 2 ON > LA 1225 T OGLETHORPE  
 06172305 CBLYT 5 ON > LA 1103 T OGLETHORPE  
 06180345 CBFT 2 PQ > LA 1414 T OGLETHORPE  
 06210200 VE8BY > CN88 > 0330 B N7AVK  
 06210336 VE8BY FP53 > CN88 50.048 B VE7SKA  
 06240143 VE8BY FP53 > CN88 50.048 B WX7R

## CANADA, Western

05111559 CKRD2 2 MB Kids TV 1279 T OGLETHORPE  
 05201658 CKRD2 2 MB 1279 T OGLETHORPE  
 05222350 CKRD2 2 MB 1279 T OGLETHORPE  
 05231330 CKRD2 2 MB 1279 T OGLETHORPE  
 05231500 VR6 > DM59 H W0MTK  
 05231755 VE8CK DP22 > DN07 S B7YAP  
 05242035 CKRD2 2 MB 1279 T OGLETHORPE  
 05251630 CJFB 5 SK > IL 1229 T ECKBERG  
 05251645 CKC 2 SK > IL 918 T ECKBERG  
 05251730 CBPC 3 SK > IL 1002 T ECKBERG  
 05260000 CKRD2 2 MB 1279 T OGLETHORPE  
 05280330 CKRD2 2 MB 1279 T OGLETHORPE  
 05302203 VE6BBC DO33 > CH85 KJ7HB  
 05302206 VE6BFR DO32 > CH85 KJ7HB  
 05311600+VE6B 2 MB -2300 K6QXY  
 05312228 CFQC 3 SK > OR T KX6TQ/7  
 06010035 CKRD2 2 MB 1279 T OGLETHORPE  
 06091338 VE4VHF 419 EN19 50.038 B C6AGH  
 06081600 VE6 1279 T OGLETHORPE  
 06082107 VE7HUT/P CO90 > DM59 S W0MTK  
 06090300 CKRD2 2 MB 1279 T OGLETHORPE  
 06091558 VE6ETT/P DO41 > EM29RE 50 KOTLM  
 06091600 VE6, VE7 K6QXY  
 06101406 VE4VHF 539 EN19 50.038 B C6AGH  
 06101600 VE6, VE7 K6QXY  
 06101815 CKRD2 2 MB 1279 T OGLETHORPE  
 06110100 CBWFT 3 MB T VE7SKA  
 06140000 VE4VHF EN19 50.0378 B K6QXY  
 06141614+VE6EMU, VE7 -2000 K6QXY  
 06150000+VE6EMU, VE13 50.0375 B K7TBU/6  
 06171745 VE7 -55.9 -2000 > EM84 K4PKX/4  
 06171800 VE6EMU -2400 K6QXY  
 06171838 VE6EMR DO33 > DM59 50.130 S W0MTK  
 06171927 VE4VHF EN19 > CH88 50.037 B VE7SKA  
 06171928 VE6SO DO21 > DM59 S W0MTK  
 06180000 VE6EMU, VE6ARC -0800 B K6QXY  
 06180000+VE6EMU, VE7 -0800 B K6QXY  
 06180455 CKRD2 2 MB > LA 1279 T OGLETHORPE  
 06180750 VE6EMU > CN92 B WAT7DE  
 06201543 VE6EMU 579 > CM97 B AC6LS  
 06210258 VE4VHF EN19 > CH88 50.037 B VE7SKA  
 06210300 CBWFT 3 MB > CH88 T VE7SKA  
 06210312 CKSA 2 SK > CH88 T VE7SKA  
 06210359 VE8CK DP22 > CH88 50.125 S VE7SKA  
 06210421 VE4VHF EN19 > CH88 50.038 B N7AVK  
 06210424 VE8CK 50.125 WA7OEU  
 06210425 VE8CK 50.038 B N7DB  
 06210425 VE8CK 50.126 N7DB  
 06211528 VE6VFC Edmonton 50.173 W0MTK

**COCOS IS.:** JA1VOK reports that the TI9X/TE9RLI 1996 Cocos Island DX-pedition (ops JH1NBN, JI3ERV, TISRLI, 7L2RPY, and TI5KD) did NOT operate 6m.

## CUBA

051012010 ICRT 3 CUBA, HAVANA > NJ T SHAFTAN  
 05301513 CO2OJ 51Q EL83 K6QXY  
 06031500-CO2OJ > CN88 H KJ7HB  
 06082345 COOFRC EL83 > EM29RE 50 KOTLM

## EL SALVADOR

05301615 Tele2 2 YSR 1324 T OGLETHORPE

**GREENLAND:** SM7AED's 6 metre info reports that Peter, OX3XR, is now QRV on 50.110 MHz. His QTH is Nuuk, grid

GP44DD. His rig is a 5 el fixed Yagi and 60W TX located at the club station and remotely controlled by a two meter HT. To give all a fair chance of working him, he will during the summer months alternate between having the Yagi pointing towards Europe and North America. Peter will bring the HT with him to his job so he can monitor the band during working hours.

## JAMAICA

06130121 KLAS-FM JAMAICA 89.1 89.5 F JEZIORSKI

## DOMINICAN REPUBLIC

06172045 H10VHF FK59 S2 50.008 B KP4XS/4

**MEXICO:** XE1AVM now owns a Yaesu FT-690RII, but it is not working well in SSB mode, only CW or FM. He asks: "How can I scan the frequency of this rig?" He also indicates that he obtained an old AR22 rotor to turn his 6 el Yagi. Reply to: Ismael Martinez Vizcarra, Apdo. Postal 440, C.P. 28200, Manzanillo, Colima, MEXICO.

03300158 XE1J 57 DK89 PEPE 50.125 S XE1AVM  
 05112210 unID 2 XEW T OGLETHORPE  
 05122242 XE2HWB 559 -2255 50.0065 B XE1AVM  
 05130030 XEPM 2 CH 746 T OGLETHORPE  
 05170115 unID 2 XEW T OGLETHORPE  
 05190135 unID 2 TV7 T OGLETHORPE  
 05191515 unIDs 2, 4, 5 Mexico T OGLETHORPE  
 05192235 unID 2 CBS, XEW T OGLETHORPE  
 05210103 XEKF 2 NL 611 T OGLETHORPE  
 05210125 unID 2 XEW T OGLETHORPE  
 05210155 XE2UZL 559 -0217 50.028 B XE1AVM  
 05211940 unID 2, 5 XEW T OGLETHORPE  
 05211940 XHLEG 4 Guanajuato, 912 T OGLETHORPE  
 05222130 unID 2 XEW T OGLETHORPE  
 05230150 unID 2 Michoacan ad T OGLETHORPE  
 05260155 unID 2 Mexico T OGLETHORPE  
 05291605 unID 2 XEW; Un Nuevo dia T OGLETHORPE  
 05300030 unIDs 2, 4, 5 Mexico T OGLETHORPE  
 05300045 unID 2 XHQ-3 relay T OGLETHORPE  
 05300120 XHB8 4 SI/SD Mode #1 T OGLETHORPE  
 05301323 unID 2 SS T OGLETHORPE  
 05301440+XE2HWB, XE2UZL, XE1KK -2100 B K6QXY  
 05301520 unIDs 2 Mexico T OGLETHORPE  
 05301600-XE1KK, XE2UZL IN MOST DAY B KJ7HB  
 05301615 unID 2 Sinaloa T OGLETHORPE  
 05301631 XE1KK EK09 > CB85 KJ7HB  
 05301800 unIDs 2 TV7, XEW T OGLETHORPE  
 05310230 unID 2 Mexico T OGLETHORPE  
 06012330 unIDs 2 XEW, TV7 T OGLETHORPE  
 06020100+XE2HWB, XE2UZL -0400 B K6QXY  
 06021620 unID 2 XHQ-3 QSP T OGLETHORPE  
 06021620 XHB8 4 SI/SD XEW T OGLETHORPE  
 06021640 XHQ 3 SI // 980 T OGLETHORPE  
 06021650 unID 2 Canal Trece T OGLETHORPE  
 06021655 unID 2 XEW T OGLETHORPE  
 06021705 XHCB 2 CH Telethon 778 T OGLETHORPE  
 06021830 XE1KK -2035 B K7RWT  
 06021830 XHMAF 4 SI Mazatlan 1000 T OGLETHORPE  
 06022190 unID 5 XHGC-5 T OGLETHORPE  
 06022201 XHAGU 2 T OGLETHORPE  
 06031455 unIDs 2 XEW, TV7, etc T OGLETHORPE  
 06031528 XHSRO NL > EM66 TN 92.5 F W9WI/4  
 06031528 XHETS EA > EM66 TN 91.5 F W9WI/4  
 06031558 XHOB SLP > EM66 TN 96.1 F W9WI/4  
 06031600 XHRT TM > EM66 TN 95.3 F W9WI/4  
 06031610 unIDs 4, 5 XEW, etc T OGLETHORPE  
 06031700 XHIT 4 CH 778 T OGLETHORPE  
 06031700+XE2UZL -2400 B K6QXY  
 06041640 XE2HWB 4 JAL Guadalaj 1003 T OGLETHORPE  
 06061415 unIDs XEW, etc T OGLETHORPE  
 06061600 XHG 4 JAL Guadalaj 1003 T OGLETHORPE  
 06061650 unID VER T OGLETHORPE  
 06070110 unID 2 VER CON BX T OGLETHORPE  
 06070110 unIDs 2, 4 MEXICO T OGLETHORPE  
 06071400 unID 2 XEW T OGLETHORPE  
 06071800 unID 2 XHQ-3 T OGLETHORPE  
 06081450 unIDs 2 XEW, etc T OGLETHORPE  
 06090020 unIDs 2 XEW & SS T OGLETHORPE  
 06090200 unIDs 2 MEXICO T OGLETHORPE  
 06090222 XE3EB EL50 > EM29RE 50 KOTLM  
 06090327 unID 2 VER T OGLETHORPE  
 06091600 unID 2 CANADA (E) T OGLETHORPE  
 06091600 XE2 K6QXY  
 06091723 XE2HWB 53 DL44  
 06091814 XE2/KC5PMT EL13 > EM29RE 50 KOTLM  
 06091930 unID 2 MEXICO T OGLETHORPE  
 06092331 XHBC 3 BCH > CB88 VE7WSA  
 06092341 XE2OR DL98 > EM29RE 50 KOTLM  
 06112318 XE2/KC5FMT EL03 > EM29RE 50 KOTLM  
 06112345 unID 2 TV7 MEXICO > LA T OGLETHORPE  
 06120003 unID 2 VER > LA T OGLETHORPE  
 06120049 XE1KK EK09 > EM29RE 50 KOTLM  
 06120200+XE2HWB, XE1KK, XE1J -0400 B K6QXY  
 06121540 unID 2 > LA XEW T OGLETHORPE

06130045 unIDs 2 Mexico > LA T OGLETHORPE  
 06131400 XE2HWB, XE1KK 2 CH Juarez > LA 746 T OGLETHORPE  
 06141345 unID 2 > LA XEW T OGLETHORPE  
 06141600 unIDs 2, 4 > LA XEW T OGLETHORPE  
 06161600 XE1KK > EM48 50.125 W KSOF  
 06161835 XE2HWB 2 CH > LA 746 T OGLETHORPE  
 06171800+XE2HWB -2400 B K6QXY  
 06200342 XE2UZL DM12 > CN88 50.027 B VE7WSA

## NEWFOUNDLAND

05281806 VO1ZA 339 --> 449 > IO80JV B G4UPS  
 05282250+VO1ZA < 2310 B WB4WTC

**PRINCE EDWARD ISLAND:** W3EP and W1AIM operated from North Cape, PEI to be on the small sliver of land that is FN87 during the June VHF QSO party. They had 220 QSOs on 6m in 85 grid squares, with the best DX W7CI/6 (DM12) 4800 km. The following week between the two of them, they put FN96, 86, 77, and 76 on the air. Total countries worked on 6m during the week were: W VE C6 J6 VP5 KP4 XE GW F EH EH8.

## PUERTO RICO

05250050 KP4XS EM84 SC > DN07 S N7YAP  
 06161715+KP4A -1800 C PA3FYM  
 06161715+KP4EIT -1800 S PA3FYM

## SABLE IS.

06202320 CY0AA FM19 50.125 S KEOYG  
 06221345+CY0AA > 1545 50.130 S W1-5  
 06222305 CY0AA > EM48 50.120 S W0  
 06242100 CY0AA 59 FH93 > FH35 50.125 S VC2PIJ

**ST. KITTS:** W6JKV and K6MYC plan to operate from St. Kitts as V47KV and V47YC from 28 June to 8 July.

06101158 V44K/B 559 > 1228 FK87 50 B KOTLM

## ST. LUCIA

06072253 J6/KC4AUF 50.1148 S W1

## ST. PIERRE & MIQUELON

05282250 FP5EK H WB4WTC

**TURKS & CAICOS:** W6JKV and N4HSM were QRV from Providenciales at VP5JM's 'hamlet' between June 6-9. Jimmy reports that they had 88 QSOs with 68 stations in 17 European countries on the 7th and had 584 North American QSOs in 191 grids during the ARRL June VHF QSO party. North American DX countries worked included J6, C6, CO, and KP4.

06071305 VP5/N4HSM FL31 > FM16 W N1KTM  
 06081802 VP5H 56 FL31 > EM29RE 50 KOTLM  
 06091600 VP5 K6QXY  
 06092027 VP5H 599 FL31 K6QXY

## UNITED STATES, W1

05281852 WA1OUB 559/529 FH43GL BOB C G4UPS  
 05281903+AFIT 55 > IO80JV H G4UPS  
 05281903-K1KKH 449 > IO80JV H G4UPS  
 05281903-KM1H 569 > IO80JV H G4UPS

05290330 W1 K6QXY

05290437 K1TOL 55 K6QXY

05291630 WCAX 3 VT > IL 821 T ECKBERG

05312120 WTIC 3 CT > IL 842 T ECKBERG

05312130 WGBH 2 MA > IL 918 T ECKBERG

05312130 WLZB 2 ME > IL 1030 T ECKBERG

06072253 W1 50.1148 S KC4AU/J6

06120131 WSHE MA TAUNTON 93.3 F JEZIORSKI

06120134 WLX MA 1044 > FL 100.7 F JEZIORSKI

06120138 WCOD MA 1031 > FL 106.1 F JEZIORSKI

06120147 WAQY MA SPRINGFI 102.1 F JEZIORSKI

06120151 WGUY ME 1246 > FL 102.1 F JEZIORSKI

06120158 WRCH CT BRITAIN 100.5 F JEZIORSKI

06120200 WEVO NH 1069 FL 89.1 F JEZIORSKI

06120220 WHOM NH MTWASH>FL 94.7 F JEZIORSKI

06120239 WQCB ME 1250 > FL 105.5 F JEZIORSKI

06120243 WKCG ME 1193 > FL 101.3 F JEZIORSKI

06120245 WEBB ME 1210 > FL 98.5 F JEZIORSKI

06120326 WE1V 55 FH31 > DM59 S WOMTK

06120339 WE1V 55 FH31 K6QXY

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05231709 KF4AEW EM50 NC > DM07 S H7YAP  
 05231711 WB4QXK EM81 GA > DM07 S H7YAP  
 05240000 WESH 2 FL > IL 983 T ECKBERG  
 05240000 WPBT 2 FL > IL 1229 T ECKBERG  
 05240000 WUND 2 NC > IL 1031 T OGLETHORPE  
 05241358 WPBT 2 FL 797 T ECKBERG  
 05241445 WMFY 2 NC 838 T OGLETHORPE  
 05241458 WYFT 4 SC T OGLETHORPE  
 05250000 WUFT 5 FL GAINESVILLE> NJ T SHAFTAN  
 05250052 W4VEB EM83 GA > DM07 S H7YAP  
 05250115 W4ZPG EM73 GA > DM07 S H7YAP  
 05260034 W4/KP4XS EM84 > DM59 S WOMTK  
 05260046 W4TGE EM66 > DM59 50.140 S WOMTK  
 05260123 KD4WSC FM06 > DM59 50.173 S WOMTK  
 05272228 WTTR 3 VA Local ad 960 T KRUSEKA  
 05272230 WPBT 2 FL > IL 1229 T ECKBERG  
 05272230 WUND 2 NC 1031 T OGLETHORPE  
 05272240 WESH 2 FL > IL 983 T ECKBERG  
 05272330 WAVE 3 KY 607 T OGLETHORPE  
 05280200 WRBC 3 TS CHATTANOOG> NJ T SHAFTAN  
 05282010 WSAV 3 GA SAVAEHAH > NJ T SHAFTAN  
 05301350 WPBT 2 FL 939 T OGLETHORPE  
 05301455 WCIX 4 FL 939 T OGLETHORPE  
 05311759 WUND 2 NC 1031 T OGLETHORPE  
 06011445 WESH 2 FL 789 T OGLETHORPE  
 06011540 WPBT 2 FL 939 T OGLETHORPE  
 06011610 WFOR 4 FL 939 T OGLETHORPE  
 06011625 WPVT 5 FL 912 T OGLETHORPE  
 06011630 WEDU 3 FL Floating 743 T OGLETHORPE  
 06011905 WCBD 2 SC 805 T OGLETHORPE  
 06021700 W4 (WEAK) 50.1148 S KC4AUF/J6  
 06021900 WPBT 2 FL MIAMI > NJ T SHAFTAN  
 06022140 WUNC 4 SC //2 875 T OGLETHORPE  
 06022140 WUND 2 NC 1031 T OGLETHORPE  
 06031700+W4 SC, NC -2400 K6QXY  
 06040020 KIYV 3 KY > NY T RENFREW  
 06041735 WESH 2 FL 789 T OGLETHORPE  
 06041745 WCBD 2 SC 805 T OGLETHORPE  
 06072235 W4 50.1148 S KC4AUF/J6  
 06081535 WUND 2 SC 1031 T OGLETHORPE  
 06081557 WUNC 4 SC 875 T OGLETHORPE  
 06081600 W4 838 T OGLETHORPE  
 06082315 WCBD 2 SC 805 T OGLETHORPE  
 06090045 WESH 2 FL 789 T OGLETHORPE  
 06090105 WPBT 2 FL 939 T OGLETHORPE  
 06091415 WCBD 2 SC 805 T OGLETHORPE  
 06091615 WSB 2 GA 551 T OGLETHORPE  
 06091615 WUND 2 NC 1031 T OGLETHORPE  
 06091630 WMFY 2 EC 838 T OGLETHORPE  
 06101600 W4 AL, NC, SC, GA K6QXY  
 06112150 WUND 3 NC > LA 924 T OGLETHORPE  
 06112159 WUNC 4 NC > LA 875 T OGLETHORPE  
 06112200+KJAE 559 > IO83<2300 H GOJHC  
 06112203 WCSC 5 SC > LA 805 T OGLETHORPE  
 06112203 WRAL 5 NC > LA 896 T OGLETHORPE  
 06112203 WURD 2 NC > LA 1031 T OGLETHORPE  
 06112259 N4TWX EL98 > PH65RR 50.110 H VE9AA  
 06112259 W4WHM EM90?> FN65RR 50.110 H VE9AA  
 06112350 WCBD 2 SC > LA 805 T OGLETHORPE  
 06112350 WPBT 2 FL > LA 939 T OGLETHORPE  
 06120000 WFOR 4 FL > LA 939 T OGLETHORPE  
 06120124 WYFO? FL 1071 > NY 91.9 F RENFREW  
 06120126 WPCV FL 1070 > NY 97.5 F RENFREW  
 06120130 WEEJ? FL 1145 > NY 100.1 F RENFREW  
 06120131 WNRG? FL 1167 > NY 101.9 F RENFREW  
 06120138 WRBO FL 1084 > NY 104.7 F RENFREW  
 06120140 WMLO FL 943 > NY 104.9 F RENFREW  
 06120145 WJXR FL 922 > NY 92.1 F RENFREW  
 06120158 WJWV GA 903 > NY 90.9 F RENFREW  
 06120159 WYFK GA 839 > NY 89.5 F RENFREW  
 06120205 WPCS FL 1028 > NY 89.5 F RENFREW  
 06120206 WKUL? AL 795 > NY 92.1 F RENFREW  
 06120211 WDDQ GA 889 > NY 92.1 F RENFREW  
 06120224 WMBV AL 947 > NY 92.1 F RENFREW  
 06120225 WGFC? GA 876 > NY 104.5 F RENFREW  
 06120233 WLCK GA 745 > NY 91.9 F RENFREW  
 06120245 WSLY AL 940 > NY 104.9 F RENFREW  
 06121350 WPBT 2 FL > LA 939 T OGLETHORPE  
 06131750 WFOR 4 FL > LA 939 T OGLETHORPE  
 06131750 WPBT 2 FL > LA 939 T OGLETHORPE  
 06141705 WUND 2 NC > LA 1031 T OGLETHORPE  
 06141725 WCBD 2 SC > LA 805 T OGLETHORPE  
 06141739 WMFY 2 NC > LA 838 T OGLETHORPE  
 06150000+W4 FL, SC -0300 K6QXY  
 06151529 WCBD 2 SC > LA 805 T OGLETHORPE  
 06151600 WMFY 2 NC > LA 838 T OGLETHORPE  
 06151629 WSB 2 GA > LA 551 T OGLETHORPE  
 06171645 WUND 2 NC > LA 1031 T OGLETHORPE  
 06171659 WCBD 2 SC > LA 805 T OGLETHORPE  
 06171740 WRAL 5 NC > LA 896 T OGLETHORPE  
 06171740 WUBC 4 NC > LA 875 T OGLETHORPE  
 06171800+W4 -2400 SPOTTY K6QXY  
 06171815 WCXB 5 VA > LA 721 T OGLETHORPE  
 06171829 WJSKJ 2 TN > LA 665 T OGLETHORPE  
 06171917 W4/K60EID EM73>CH88 50.1 S VE7SKA  
 06171919 W4/KP4XS EM84 > CH88 50.15 S VE7SKA  
 06172320 W4 TE > DM59 H WMTK  
 06180457 KF4WEK EM56 > CH88 50.140 S VE7SKA  
 06181255 WPBT 2 FL > LA 939 T OGLETHORPE  
 06181300 WFOR 4 FL > LA 939 T OGLETHORPE  
 06181310 WEDU 3 FL > LA 743 T OGLETHORPE  
 06181310 WPVT 5 FL > LA 912 T OGLETHORPE  
 06181345 WESH 2 FL > LA 789 T OGLETHORPE  
 06181400 WUFT 5 FL > LA 703 T OGLETHORPE  
 06181402 WUCB 4 NC > LA 875 T OGLETHORPE  
 06181435 WCBD 2 SC > LA 805 T OGLETHORPE  
 06181435 WCIV 4 SC > LA 805 T OGLETHORPE  
 06181435 WCXB 5 VA > LA 721 T OGLETHORPE  
 06181440 WSC 5 SC > LA 805 T OGLETHORPE  
 06181443 WSMV 4 TN > LA 475 T OGLETHORPE  
 06181459 WRAL 5 NC > LA 896 T OGLETHORPE  
 06181600 WPCX 6 FL > LA 784 T OGLETHORPE  
 06181600 WECT 6 NC > LA 924 T OGLETHORPE  
 06181605 KS4OT EM83 > EL09QL 144.2 WA5IYX

06181610 KE4UWJ EM83 144.2 H WA5IYX  
 06181610 WTVJ 6 FL > LA 939 T OGLETHORPE  
 06181620 WJXT 4 FL > LA 728 T OGLETHORPE  
 06181620 WYFF 4 SC > LA 676 T OGLETHORPE  
 06181636 AD4AY EM63 SHORTEST 144.2 WA5IYX  
 06181638 WA4VHN EM95 > EL09QL 144.2 WA5IYX  
 06181644 WA4WYI EM95 144.2 WA5IYX  
 06181648 WA4VCC EM94 144.2 WA5IYX  
 06181659 WA0XH EM95 144.2 WA5IYX  
 06181730 WMFY 2 NC > LA 838 T OGLETHORPE  
 06190100 W4WHD EM83, K60EID/4 EM73 W KE6KMF  
 06190100+KE4KVF EM94, N4KE EM64 W KE6KMF  
 06181610 KE4UWJ EM83 144.2 H WA5IYX  
 06181610 WTVJ 6 FL > LA 939 T OGLETHORPE  
 06181620 WJXT 4 FL > LA 728 T OGLETHORPE  
 06181620 WYFF 4 SC > LA 676 T OGLETHORPE  
 06181636 AD4AY EM63 SHORTEST 144.2 WA5IYX  
 06181638 WA4VHN EM95 > EL09QL 144.2 WA5IYX  
 06181644 WA4WYI EM95 144.2 WA5IYX  
 06181648 WA4VCC EM94 144.2 WA5IYX  
 06181659 WA0XH EM95 144.2 WA5IYX  
 06181730 WMFY 2 NC > LA 838 T OGLETHORPE  
 06190100 W4WHD EM83, K60EID/4 EM73 W KE6KMF  
 06190100+KE4KVF EM94, N4KE EM64 W KE6KMF  
 06181610 KE4UWJ EM83 144.2 H WA5IYX  
 06181610 WTVJ 6 FL > LA 939 T OGLETHORPE  
 06181620 WJXT 4 FL > LA 728 T OGLETHORPE  
 06181620 WYFF 4 SC > LA 676 T OGLETHORPE  
 06181636 AD4AY EM63 SHORTEST 144.2 WA5IYX  
 06181638 WA4VHN EM95 > EL09QL 144.2 WA5IYX  
 06181644 WA4WYI EM95 144.2 WA5IYX  
 06181648 WA4VCC EM94 144.2 WA5IYX  
 06181659 WA0XH EM95 144.2 WA5IYX  
 06181730 WMFY 2 NC > LA 838 T OGLETHORPE  
 06190100 W4WHD EM83, K60EID/4 EM73 W KE6KMF  
 06190100+KE4KVF EM94, N4KE EM64 W KE6KMF  
 06181610 KE4UWJ EM83 144.2 H WA5IYX  
 06181610 WTVJ 6 FL > LA 939 T OGLETHORPE  
 06181620 WJXT 4 FL > LA 728 T OGLETHORPE  
 06181620 WYFF 4 SC > LA 676 T OGLETHORPE  
 06181636 AD4AY EM63 SHORTEST 144.2 WA5IYX  
 06181638 WA4VHN EM95 > EL09QL 144.2 WA5IYX  
 06181644 WA4WYI EM95 144.2 WA5IYX  
 06181648 WA4VCC EM94 144.2 WA5IYX  
 06181659 WA0XH EM95 144.2 WA5IYX  
 06181730 WMFY 2 NC > LA 838 T OGLETHORPE  
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 06181620 WJXT 4 FL >

05112240 KSGI	4 UT ID Bars	1151 T OGLETHORPE	06100035 KMAZ	2 AE	1045 T OGLETHORPE	05231600 WBAY	2 WI	892 T OGLETHORPE
05112350 KTWO	2 WY	996 T OGLETHORPE	06100045 KSGI	4 UT ID BARS	1151 T OGLETHORPE	05232303 9W9MI	> DM59	S WOMTK
05120045 KGLW	5 WY	1071 T OGLETHORPE	06112015 KWCW	4 WY	> LA	071 T OGLETHORPE	> DM59	S WOMTK
05122155 WTUS	49 -2240	50.06 B XE1AVM	06112022 KTWO	2 WY	> LA	996 T OGLETHORPE	05242129 WBBM	2 IL
05122245 KUTV	2 UT	1160 T OGLETHORPE	06112023 KGWN	5 WY	> LA	859 T OGLETHORPE	05242131 WTMJ	4 WI
05122250 KUTV	4 UT	1160 T OGLETHORPE	06121010 KMAZ	2 AE	> LA	1045 T OGLETHORPE	05242140 WBAY	2 WI
05122307 KPHO	5 AZ	1065 T OGLETHORPE	06131400 W7 AZ			K6QX	05242200 WMAQ	5 IL
05122315 KSGI	4 UT ID Bars	1151 T OGLETHORPE	06132012 KVOA	4 AE	> LA	1004 T OGLETHORPE	05260056 WDSEXD/P EN57	737 T OGLETHORPE
05122340 KVQA	4 AZ	1004 T OGLETHORPE	06132020 KPHO	5 AE	> LA	1065 T OGLETHORPE	05260136 WB9YCE	737 T OGLETHORPE
05130015 KVUU	5 NV	1238 T OGLETHORPE	06132025 KRAZ	2 AE	> LA	1045 T OGLETHORPE	05272331 WFRV	5 WI WHFL ad,
05150140 KSL	5 UT	1160 T OGLETHORPE	06132050 KTVK	3 AE	> LA	1065 T OGLETHORPE	05272321 WTMJ	4 WI ID, news
05150140 KTVK	4 UT	1160 T OGLETHORPE	06132328 KTWO	2 WY	> LA	996 T OGLETHORPE	05282325 WBBM	801 T OGLETHORPE
05150140 KUTV	2 UT	1160 T OGLETHORPE	06140025 KWCW	4 WY	> LA	1071 T OGLETHORPE	05291730 WCIA	882 T OGLETHORPE
05192044 KTVK	3 AZ	> OR T KK6TQ/7	06140028 KTVK	4 UT	> LA	1160 T OGLETHORPE	05291827 9W9YQ	737 T OGLETHORPE
05200358 WTUS	339 -0402	50.068 B XE1AVM	06140055 KSL	5 UT	> LA	1160 T OGLETHORPE	51/51 EM68	50.175 S VE2PIJ
05200403 W7/W6SKC	339 -0412	50.075 B XE1AVM	06141040 W7/KB1M	87 DN71 > DM09		BC7K	06081705 WBAY	892 T OGLETHORPE
05200408 KF7NP	56 DM33	50.125 S XE1AVM	06141052 W7/JA	DN30 WKD 0249	144.2 W	WA5IXY	06090002-WB9UWA	892 T OGLETHORPE
05200410 WTGS	44 DM42	50.125 S XE1AVM	06141055 WA7GMS	DN13 > EL29FQ	144.2 W	K5LL5	06090015 KA9CFD	985 T KRUSZKA
05200420 WA7JTM	55 DM33	50.125 S XE1AVM	06141055 WA7PKD	DN30 WKD 0250	144.2 W	WA5IXY	06091739 AA9D	801 T OGLETHORPE
05211623 H7ML	55/55 DM45	50.117 S C6AGH	06142028 KVUU	5 NV	> LA	1238 T OGLETHORPE	06101401 WBAY	882 T OGLETHORPE
05211700 KGWN	5 WY	Big ID	06140323 K7CA	418 FAI		144. C W5UWB	06101530 WBBM	737 T OGLETHORPE
05211735 KTWO	2 WY	996 T OGLETHORPE	06140325 WA7PKD	57 Es		144. S W5UWB	06112150 WBBM	2 IL
05211845 KEL	5 UT	1160 T OGLETHORPE	06140326 W7/JA	59 Es		144. S W5UWB	06112210 WBAY	2 IL
05211845 KUTV	2 UT	1160 T OGLETHORPE	06140331 J7WS	418 FAI		144. C W5UWB	06140000 W9 IL	2 WI
05212100 KRAZ	2 AZ	1045 T OGLETHORPE	06140333 K7CA	51 Es		144. S W5UWB	06142350 K9FD	892 T OGLETHORPE
05212142 NJ7A	56 DH30 DAVE	50.125 S XE1AVM	06140343 W7RV	418 FAI		144. C W5UWB	06171930 AA9LT	AURORA > EM34FV
05212157 KVOA	5 AZ	1065 T OGLETHORPE	06140358 WA7YWM	418 FAI		144. C W5UWB	06171930 HH9Z	EM60 > CH88
05212157 KVOA	4 AZ	1004 T OGLETHORPE	06140423 KSGI	4 UT	> LA	1151 T OGLETHORPE	06171943 9W9BB	50.1 S VE7SKA
05220145 WB7QXU	57 DM12 MIGUEL	125 S XE1AVM	06141614+W7 WA, OR -2000			K6QX	06171943 9W9BB	50.1 S VE7SKA
05220146 KB7PMW	44 DM42 ERIC	50.125 S XE1AVM	06171730-KR7HBS	> DO05 > 2230	50.061 B	VE6RM	06171948 WA9EZT	50.1 S VE7SKA
05221250 KTWO	2 WY	996 T OGLETHORPE	06171745 W7	S5-9 -2000 > EM84		KP4X5/4	06171951 K9PWH	50.1 S VE7SKA
05221250 KUTV	2 UT	1160 T OGLETHORPE	06171800+W7	-2400 SPOTTY		K6QX	06180000+W9 WI	-0800 K6QX
05222135 KRAZ	2 AZ	1045 T OGLETHORPE	06171952 W7XU	EN13 > CH88	50.1 S VE7SKA	06180404 9WPEZ	06182020 WBAY	50.160 S VE7SKA
05222335 KTVQ	2 MT	T OGLETHORPE	06180000+W7 WA, MT	-0800		K6QX	06182030 WFRV	5 WI > LA
05231520 N7GVR	DN72 WY	> DM07 S 87YAP	06180431 KTVK	4 UT		794 T VE7SKA	06182030 WBHF	892 T OGLETHORPE
05231735 KSL	5 UT > IL	1139 T ECKBERG	06180500 KUTV	2 UT		795 T VE7SKA	06190130 WBBM	50.1 S VE7SKA
05231820 KUTV	2 UT > IL	1139 T ECKBERG	06180501 W7SH	DN31 > CN88	50.1 S VE7SKA	06201336 IRAC	WI RACINE 108.7 B WA5IXY	
05231830 KLEW	3 ID > IL	1360 T ECKBERG	06180506 KE7NS	DN41 > CN88	50.061 B VE7SKA	06210030 H9UVU	EE52 > DM59 50.173 S WOMTK	
05232010 KSL	5 UT	1160 T OGLETHORPE	06180509 KB7RR	EE81 > CN88	50.1 S VE7SKA	EE52 > DM59	50.173 S WOMTK	
05232010 KTVK	4 UT	1160 T OGLETHORPE	06180615 AA7A	> CH85	50.110 H 87D8	EE52 > DM59	50.173 S WOMTK	
05232030 KUTV	2 UT	1160 T OGLETHORPE	06180750 W7HAB	> CH92	B WAT7DE	EE52 > DM59	50.173 S WOMTK	
05232105 KUTV	2 AZ	1045 T OGLETHORPE	06181737 KE7BS > DO05	50.061 B VE6NM		EE52 > DM59	50.173 S WOMTK	
05232125 WB7OH	59 DM42 RAY	50.125 S XE1AVM	06181739 W7DB	CN85 > DO05 50.065 B VE6NM		EE52 > DM59	50.173 S WOMTK	
05240235 KGWN	5 WY > IL	785 T ECKBERG	06190020 KRAZ	2 AZ > LA	1045 T OGLETHORPE	EE52 > DM59	50.173 S WOMTK	
05251715 KRTV	3 MT > IL	1112 T ECKBERG	06190139 W7/W6X1	DM42 > DM59	S WOMTK	EE52 > DM59	50.173 S WOMTK	
05252325 KRAZ	2 AZ	1045 T OGLETHORPE	06190142 W7GE	DM42 > DM59	S WOMTK	EE52 > DM59	50.173 S WOMTK	
05270010 KRAZ	2 AZ > IL	1258 T ECKBERG	06200235 KTVX	4 UT		794 T VE7SKA	05112357 KIVV	5 SD KENV-7 987 T OGLETHORPE
05270234 W7AVD	52/52 DM65	50.114 S C6AGH	06200259 KUTV	\$ 2 UT		795 T VE7SKA	05130059 KOFF	55 EM49 GEORGE -5.125 XE1AVM
05281500+W7 WY	-1800	K6QX	06200300 KDKD	3 ID		637 T VE7SKA	05192322 KBME	3 HD > OR T KK6TQ/7
05282335 KTVQ	2 MT > IL	968 T ECKBERG	06200302 KE7NS	DN41 > CH88	50.0605 B VE7SKA	05201457 KTC4	2 MN	
05300000 KRAZ	2 AZ	1045 T OGLETHORPE	06200329 KSGI	4 UT		940 T VE7SKA	05201459 KGPZ	1086 T OGLETHORPE
05300100+W7 AZ	-0300	1045 T OGLETHORPE	06201510 BC7K/M	DM09 > DM78	144.2 W 2WCRS/0	05202138 KFVY	2 SD	
05300100+W7 AZ	-0300	1004 T OGLETHORPE	06201559 KTVX	4 UT		794 T VE7SKA	05211637 WOSII	55/59 DE71 50.117 S C6AGH
05301440+W7 US, W6SKC/7 AZ, WY	-2100	B K6QXY	06201630 KVBC	3 NV		986 T VE7SKA	05211645 KPRY	900 T OGLETHORPE
05301615 H7AMA/M	DM25	> CH85	06201752 W7CHN	OR	> DM59	173 S WOMTK	05211750 KQJB	672 T OGLETHORPE
05301654 H7CRH	DM43	> CH85	06201800 KREV	4 HV		665 T VE7SKA	05211750 WCCO	806 T OGLETHORPE
05301655 KUTV	2 UT	1160 T OGLETHORPE	06201808 W7HK	DM09 > CH88	50.074 B VE7SKA	05211612 KDHU	4 HE KOTA-3	
05301657 KDTGC	DM33	> CH85	06201808 W7HK	DM09 > CH88	50.074 B VE7SKA	05211612 KTV	4 IA	
05301720 KRAZ	2 AZ	1045 T OGLETHORPE	06201829 K7YH	M CN87 > DM59	50.173 S WOMTK	05211615 KUSD	738 T OGLETHORPE	
05301806 H7SFT	DN41	> CH85	06201830 K7YH	M CN87 > DM59	50.173 S WOMTK	05211637 WOSII	55/59 DE71 50.117 S C6AGH	
05301830 H7ST	DN41	> CH85	06201831 K7YH	M CN87 > DM59	50.173 S WOMTK	05211645 KPRY	900 T OGLETHORPE	
05302037 KTWO	2 WY "K2"	996 T OGLETHORPE	0620211621 K7UWV	DM08 > DO05	W VE6NM	05211745 KNGH	806 T OGLETHORPE	
05302120 KTVQ	2 MT	1215 T OGLETHORPE	06202238 KTVW	2 W Y > CH88	T VE7SKA	05211910 KOAA	806 T OGLETHORPE	
05302125 KUTV	2 UT > IL	1139 T ECKBERG	06202409 K7YH	M CN87 > DM59	S WOMTK	05220135 KINT	3 IA MASONCITY > PA T KITSKO	
05311600+W7 AZ	-2300	K6QXY	06202400 KRAZ	2 AZ > CH88	T VE7SKA	05220242 KQTW	2 MO ST JOSEPH > BJ T SHAFTAN	
06020100+W7 US, W6SKC/7 -0400		B K6QXY	06202400 KRAZ	2 AZ > CH88	T VE7SKA	05221320 KNGH	806 T OGLETHORPE	
06021541 W7US	419 DM42	50.068 B C6AGH	06202406 W7 DM43, 44, 45 > CH88		T VE7SKA	05221415 KOFF	WOMTK	
06022045 KVOA	4 AZ	1004 T OGLETHORPE	06202421 KVOA	4 AZ		05222131 KOTA	3 SD RAPID CITY > PA T KITSKO	
06031700+W7 BOXX		> CH85	06202421 KVOA	4 AZ		05222200 KDLT	5 SD SIDUXFALLS > PA T KITSKO	
06031745 KRAZ	2 AZ	1045 T OGLETHORPE	06202421 KVOA	4 MI		05222230 KRVN-7	5 SD RAPID CITY > PA T KITSKO	
06031845 KUTV	2 UT	1160 T OGLETHORPE	06202421 W7OM	4 MI		05223000 KREG	3 CO > IL	
06040000+W7 AZ	-0300	K6QXY	06202421 W7OM	4 MI		05230145 HOHJZ	50.173 S WOMTK	
06041640 W7 (SPOTTY)		K6QXY	06202421 W7OM	4 MI		05231300 KVOA	50.173 S WOMTK	
06042030 KTWO	2 WY	996 T OGLETHORPE	06202421 W7OM	4 MI		05231300 KVOA	50.173 S WOMTK	
06050001 KTVO	2 MT MASH	1215 T OGLETHORPE	06202421 W7OM	4 MI		05231300 KVOA	50.173 S WOMTK	
06061900 KRAZ	2 AZ	1045 T OGLETHORPE	06202421 W7OM	4 MI		05231300 KVOA	50.173 S WOMTK	
06070015 KUTV	4 UT News	1160 T OGLETHORPE	06202421 W7OM	4 MI		05231300 KVOA	50.173 S WOMTK	
06070020 KSL	5 UT News	1160 T OGLETHORPE	06202421 W7OM	4 MI		05231300 KVOA	50.173 S WOMTK	
06070040 KSGI	4 UT ID BARS	1151 T OGLETHORPE	06202421 W7OM	5 MI		05231300 KVOA	50.173 S WOMTK	
06070068 KVOA	4 AZ	1004 T OGLETHORPE	06202421 W7OM	4 MI		05231300 KVOA	50.173 S WOMTK	
06070100 KVVU	5 NV Extra	1238 T OGLETHORPE	06202421 W7OM	5 OH	"5 on your	05231300 KVOA	50.173 S WOMTK	
06071835 KUTV	2 UT	1160 T OGLETHORPE	06202715 WDTB	2 OH	735 T OGLETHORPE	05231600 KNGH	806 T OGLETHORPE	
06081600 W7 MT		K6QXY	06202715 WDTB	2 OH		05231629 KOGJX	806 T OGLETHORPE	
06082045+W7 DN30, 31, 41 > CH88	50.1	VE7SKA	06202723 WDIV	4 MI		05231634 WQOIN	806 T OGLETHORPE	
06082220 KTVQ	2 MT Q2	1215 T OGLETHORPE	06202800 W8MSF	57 EM79 > DM59	S WOMTK	05231635 KXJB	806 T OGLETHORPE	
06090010 KRAZ	2 AZ	1045 T OGLETHORPE	06202900 WJBK	2 MI		05231730 KREG	806 T OGLETHORPE	
06090215 K7CTW	DN41 > CH88 MS	50.1	VE7SKA	904 T OGLETHORPE	05231747 HQQJM	806 T OGLETHORPE		
06090215 K7CTW	DN41 > CH88 MS	50.1	VE7SKA	904 T OGLETHORPE	05231747 HQQJM	806 T OGLETHORPE		
06090232 KTVX	4 UT	1160 T OGLETHORPE	06031700+W8 WV	-2400	K6QX	05231810 KREX	806 T OGLETHORPE	
06090232 KTVX	4 UT	1160 T OGLETHORPE	06081629 WDTW	5 NV		05241330 KNGH	806 T OGLETHORPE	
06090238 W7WMM	55 DM44 > FL16	50.114 S C6AGH	06081650 WJBK	2 MI		05241600 BOYH	806 T OGLETHORPE	
06092342 K7HD	DN42 > EM29	144.2	06122125 WDTB	2 OH		05250219 KSTP	806 T OGLETHORPE	
06092343 WB7OPH	DN42 > EM29	144.2	06150250 WJBK	2 MI		05250159 KXJB	806 T OGLETHORPE	
06092344 AB7HD	DN42 > EM29	144.2	06170002 WJBK	2 MI		05250245 KLDTT	5 SD in square	
06092346 AB7HD	DN42 > EM29	144.2	06171659 WJBK	2 MI		05250325 KTC4	806 T OGLETHORPE	
06092347 WB7LNB	DN42 > EM29	144.2	06171923 WDTB	2 OH		05250305 KXMA	806 T OGLETHORPE	
06092347 WB7TDDI	57 DH10FL16	50.141 S C6AGH	06172345 WDIV	4 MI		05250305 KXMA	806 T OGLETHORPE	
06092352 KCTK	DM18 > EM29	144.2	06180000 WDTW	5 NV		05250400 WAOBWE	806 T OGLETHORPE	
06092353 W7WS	DM27 > EM29	144.2	06180437 WA8JOC	EN79 > CH88	50.1 S VE7SKA	05260127 WO/1KWW	806 T OGLETHORPE	
06092353 W7WS	DM27 > EM29	144.2	06181655 WVVA	6 NV		05281500+WOLL, WBORMO, WOIJR	806 T OGLETHORPE	
06100000 KWB7CI	4 AZ	1004 T OGLETHORPE	06181925 WJBK	2 MI		05282350 NOLL ON BS, WKG EB8BPX	H KOTLM	
06100004 NC7K	DN30 > EM29	144.2	06210033 W8WBNX	EN82 > DM59	50.173 S WOMTK	05290300 NOLL, WBORMO, KS, NE	B K6QXY	
06100006 NC7K	DN30 > EM29	144.2	06221135 WBBM	2 IL		05291725 KTVI	2 MO ST LOUIS > BJ T SHAFTAN	
06100007 W7SQN	DM41 > EM40	144.2	06221215 WBBM	2 IL		05291800 KGAN	2 IA CEDARAPID > NJ T SHAFTAN	
06100009 W7SQN	DM27 > EM40	144.2	06221220 WMAQ	5 IL		05301440+WOLL, WOIJR, WBORMO	-2100 B K6QXY	
06100011 K7C7I	DM42 > EM40	144.2	06221220 WMAQ	5 IL		05301740 NOVAO	806 T OGLETHORPE	
06100012 WB7TG1	DN41 > EM29	144.2	06221220 WMAQ	5 IL		05301808 KBOQXG	806 T OGLETHORPE	
06100013 W7WS	DM42 > EM40	144.2	06221220 WMAQ	5 IL		05301822 WOMS	806 T OGLETHORPE	
06100015 WB7C7I	4 S NV</td							

UNITED STATES WO

05311703 WOOSPF EN17 > DM59 S WOMTK  
 05312100 KDL0 3 SD FLORENCE > NJ T SHAPFTAN  
 05312225 KTFS 3 CO > OR T KK6TQ/7  
 06021700 WOIJR, WOMTK, CO B K6QXY  
 06031700+WBOORMO, WOIJR, WOMTK, HOLL B K6QXY  
 06040000+BOLL, WBOORMO KS, CO, NE -0300 B K6QXY  
 06041925 KGFE 2 NE PrairiePTV 1086 T OGLETHORPE  
 06041955 KWGH 2 CO 806 T OGLETHORPE  
 06060301 KWGH 2 CO News 806 T OGLETHORPE  
 06062340 KWGH 2 CO 806 T OGLETHORPE  
 06081600 WO KS K6QXY  
 06081735 KGAM 2 IA 672 T OGLETHORPE  
 06081929 KGFE 2 ND 1086 T OGLETHORPE  
 06081959 KTCA 2 MN 869 T OGLETHORPE  
 06082045+W0 DE70, 91, DM77, 78, 79, 69 VE7SKA  
 06090005-WOGR EM38 > DM42JH 144.2 W N7WS  
 06090008-KBOADM EM29 > DM42JH 144.2 W N7WS  
 06090011-BOYI EM18 > DM42JH 144.2 W N7WS  
 06091515 KSDN? SD 1046 > NY 94.1 F RERFREW  
 06091530 KQSD SD 1116 > NY 91.9 F RERFREW  
 06091659 WOUC EN44 > DM59 50.142 S WOMTK  
 06092245 KGAM 2 IA 672 T OGLETHORPE  
 06092335 NOXPI EM29 > DM42JH 144.2 W N7WS  
 06092338-KMOA EM48 > DM42JH 144.2 W N7WS  
 06092340-W0/E5CLU EM17>DM42JH 144.2 W N7WS  
 06092343-W0/E5CLU EM17>DM42JH 144.2 W N7WS  
 06092345 KREK 5 CO 949 T OGLETHORPE  
 06092345-KBOADM EM29 > DM42JH 144.2 W N7WS  
 06092348-KOFF EM49 > DM42JH 144.2 W N7WS  
 06092350-BOMMU EM49 > DM42JH 144.2 W N7WS  
 06092352-BOPAL EM18 > DM42JH 144.2 W N7WS  
 06092354-KOLTM EM29 > DM42JH 144.2 W N7WS  
 06092356-KGOTQ EM29 > DM42JH 144.2 W N7WS  
 06092359-KBOTIJ EM17 > DM42JH 144.2 W N7WS  
 06100205 KCNC 4 CO 806 T OGLETHORPE  
 06100205 KWGH 2 CO 806 T OGLETHORPE  
 06101555 KGAM 2 IA 672 T OGLETHORPE  
 06101600 WO KS, NE K6QXY  
 06101755 KGFE 2 ND 1086 T OGLETHORPE  
 06110112 KXJB 4 SD T VE7SKA  
 06110146 KPRY 4 SD T VE7SKA  
 06110159 KOTA \$ 3 SD T VE7SKA  
 06110300 NOLL ES > DM42JH 144.2 W N7WS  
 06111530 WOMTK, CO B K6QXY  
 06112010 KCNC 4 CO > LA 806 T OGLETHORPE  
 06112023 KWGH 2 CO > LA 806 T OGLETHORPE  
 06112100 KOAA 5 CO > LA 734 T OGLETHORPE  
 06112218 WCC9 4 MN > LA 870 T OGLETHORPE  
 06112246 KDXV MO KC > FL 93.3 F JEZIORSKI  
 06112250 RCUR MO 1002 > FL 89.3 F JEZIORSKI  
 06112257 KELZ KS 1172 > FL 107.9 F JEZIORSKI  
 06112300 KHCC KS 1121 > FL 90.1 F JEZIORSKI  
 06112300 KJTY KS 1045 > FL 88.1 F JEZIORSKI  
 06112301 KPRD KS 1215 > FL 88.9 F JEZIORSKI  
 06112330 KASS KS GARDENCIT 91.1 F JEZIORSKI  
 06112330 KUSD 2 SD > LA 738 T OGLETHORPE  
 06112334 KMUN KS 1080 > FL 89.1 F JEZIORSKI  
 06120245 BOPAW FM19 > ER40 144.2 W KAC9CFD  
 06120253 WDOFLJ EM48 > FB31 144.2 W WEIV  
 06120255 KMOA EM48 > FB31 144.2 W WEIV  
 06131739 BOXX BILL > DM59 S WOMTK/M  
 06140000 NOLL, WBOORMO, WOIJR, MM B K6QXY  
 06140040 KCNC 4 CO > LA 806 T OGLETHORPE  
 06140100 KOAA 5 CO > LA 734 T OGLETHORPE  
 06150000+W0-HE, SD, CO, KS -0300 K6QXY  
 06170240 KBOPYO AURORA > EM34PV B OHJZ  
 06170331 KSPY 4 SD PIERRE > CB85 T N7DB  
 06171755 KGAM 2 IA > LA 672 T OGLETHORPE  
 06171800+W0 -2400 SPOTTY K6QXY  
 06171859 KGFE 2 ND > LA 1086 T OGLETHORPE  
 06171859 KUSD 2 SD 1291 T VE7SKA  
 06171925 WBOORMO EM10 > CH88 50.0605B VE7SKA  
 06171941 KOTA \$ 3 SD 1015 T VE7SKA  
 06171957 KTCA 2 MN 1446 T VE7SKA  
 06180253 NOLL EM09 > CH88 50.077 B VE7SKA  
 06180255 WOIJR DM79 > CH88 50.065 B VE7SKA  
 06180255 WOMTK DM69 > CH88 50.0645B VE7SKA  
 06180258 KLBV 4 KS 1277 T VE7SKA  
 06180300 KSWK \$ 3 KS 1350 T VE7SKA  
 06180307 NOLL EM09 > CH88 50.125 S VE7SKA  
 06180313 KHPB 2 NE 1224 T VE7SKA  
 06180330 KLEE 3 NE 1311 T VE7SKA  
 06180350 KYTV 3 MO 1725 T VE7SKA  
 06180356 WDFAF \$ 4 KS 1575 T VE7SKA  
 06180418 KTFS \$ 3 CO 1150 T VE7SKA  
 06182030 KGAM 2 IA > LA 672 T OGLETHORPE  
 06182050 WCCO 4 MN > LA 870 T OGLETHORPE  
 06182115 KTCA 2 MN > LA 869 T OGLETHORPE  
 06201510 W0/W2CRS DM78 > DM09 144.2 S NC7K/M  
 06201531 KWGH \$ 2 CO 1096 T VE7SKA  
 06201531 NOLL EM09 > DM09 144.2 S NC7K  
 06201541 NOJVO DM70 > DM09 144.2 S NC7K  
 06201542 WOGR EM38 > DM09 144.2 S NC7K  
 06201544 KREG 3 CO 1028 T VE7SKA  
 06201547 HOKK EM29 > DM09 144.2 S NC7K  
 06201549 WOIJR DM79 > CH88 50.065 B VE7SKA  
 06201554 WOMTK DM69 > CH88 50.0645B VE7SKA  
 06210022 KBODYA > DM59 50.173 S WOMTK  
 06210026 BTOW EM48 > DM59 50.173 S WOMTK  
 06210500 WOMTK DM59 50.065 B VEGSM  
 06220245 W0 DM67, 78, 79, CH88 -0326 VE7SKA  
 06220258 KWGH \$ 2 CO > CH88 T VE7SKA  
 06220259 KREG 3 CO > CH88 T VE7SKA  
 06220348 WDOBQM DN81 > CH88 50.1 S VE7SKA  
 06260702 WBOORMO EM10 > DM43BL B W7CV

## AUSTRALIA-VK3

0610XXXX VK3BQS 59 ON BACKSCATTER VK3OT

## AUSTRALIA-VK4

05290300 VK4 TV > 0600 S9+ 46.172 T VK3BQS  
 05290300+VK4ABP IN THE NOISE 52.347 B VK3BQS  
 05300300-VK4 TV VID WEAK V VK3BQS  
 06090442 VK4RGG 55 -0500 50.058 B VK3AMX  
 06090530 VK4 TV -0630 CHO 46.172 T VK3AMX  
 06110140 VK4 AFL, VK4DMI 59+ -0230 T VK3TGW

**AUSTRALIA-VK6:** Reception of the West Australian VHF Group beacon on 144.560 at Bunbury OF76 has been by Yvon, FR1GZ on Reunion Island on 30 May at 1304 and 4 June at 1331.

The beacon has an effective radiated power of about 100Watts horizontally polarized at a bearing of 260°. It is co-located with a 6m beacon on 50.306 with similar ERP and bearing with on-off keying on 50 MHz and FSK on 144 MHz.

A study of relevant weather maps and satellite pictures suggests that this propagation over the 6000 km path was not only possible but repeatable. Any further reports of reception would be most welcome--better still a phone call.  
 VK6WZ +61 9 317 2967, VK6HK +61 9 446 2864.

## AUSTRALIA-VK7

05290300-VK7RAE S9+ BACKSCAT 50.057 B VK3BQS

## GUAM

05250730 KH2JU 50.1 S JA4/5/6  
 05250742 KH2JU > PM42 50.187 S JA6IDJ  
 05260022 KH2JU > QM05 50.125 S JA1VOK  
 05260025 KH2JU 50.125 S JHOBQX  
 05260026 KH2JU > PM75 50.125 S JA3JTG  
 05260026 KH2JU > PM85 50.125 S JA2DWE  
 05260033 KH2JU > PM63 50.125 S JA5CMO  
 05260040 KH2JU 50.125 S JA3/4/5/6  
 05261000 KH2JU 50.125 S JA3/4/5/6/0

## HAWAIIAN IS.

05260500 KHON PEAK 0700-0900 55.260 V EK1AA  
 05280920 KHON 2 HI -1120 55.260 V EK1AA  
 05280940 KGVM 3 HI WAILUKU 61.250 V EK1AA  
 05280940 KHBC 2 HI HILO 55.250 V EK1AA  
 05280940 KITV 4 HI HONO 67.240 V EK1AA  
 06011434 KHON 2 HI -1437 55.260 V EK1AA  
 06042025 KH6HME 83 -2225 > DM12 144. B N6XQ TR  
 06050345 KH6HME 83 > DM12 144.170 B N6XQ TR  
 06051438 KHON 2 HI VY WEAK 55.260 V EK1AA  
 06051515 KH6HME --> S9 2145 144.170 B N6XQ TR  
 06060103 KH6HME 599 > 0640 144.171 B K6FV  
 06060400 KH6HME IH ALL NIGHT 144.17 B K6QKY TR  
 06061000 KHON 2 HI -1551\* 55.260 V EK1AA  
 06061500 KH6HME <2000 TR 144.17 B K6QXY TR  
 06061911 KH6HME 89+10 144.170 B N6XQ TR  
 06070045 KH6HME 459 > 0152 144.171 B K6FV  
 06070405 KH6HME 459 < 1540 144.171 B K6FV  
 06071057 KHON 2 HI > 1440\* 55.260 V EK1AA  
 06120805 KHON 2 HI -1005 55.260 V EK1AA  
 06120810 KH6HME 339 50.062 B EK1AA  
 06120810 KHBC 2 HI HILO 55.250 V EK1AA  
 06120810 KITV 4 HI HONO 67.240 V EK1AA  
 06130917 KHON 2 HI -1520\* 55.260 V EK1AA  
 06140933 KGVM 3 HI WAILUKU 61.250 V EK1AA  
 06140933 KH6HME? 50.065 B EK1AA  
 06140933 KHBC 2 HI HILO 55.250 V EK1AA  
 06140933 KHON 2 HI -1133 55.260 V EK1AA  
 06140933 KITV 4 HI HONO 67.240 V EK1AA  
 06150750 KHON 2 HI -1115 55.260 V EK1AA  
 06150750+KITV 3 HI WAILUKU 61.250 V EK1AA  
 06180805 KHON 2 HI -1135 55.260 V EK1AA  
 06180900 KGVM 3 HI WAILUKU 61.250 V EK1AA  
 06180900 KH6HME, HI? 30.062 50.065 B EK1AA  
 06180900 KITV 4 HI HONO 67.240 V EK1AA  
 06181036 KHON 2 HI -1136 55.260 V EK1AA  
 06181436 KHON 2 HI 55.260 V EK1AA  
 06192350 KH6HME/B 50.061 B JA3JTG  
 06200015 KH6JOI 50.110 S JA3JTG  
 06200015 KH6JOI > PM86 50.110 S JA9BHZ  
 06200020 KH6JOI > PM74 50.110 C JJ3WVG  
 06200029 KH6JOI > PM86 50.110 C JA9BHZ  
 06201953 KH6HME BK29 -2012 50.0617B VE7SKA  
 06201959 KHON 2 HI > CH88 2674 T VE7SKA  
 06210955 KGVM 3 HI WEAK 61.250 V EK1AA  
 06210955 KHBC 2 HI HILO 55.250 V EK1AA  
 06210955 KHON 2 HI -1640\* 55.260 V EK1AA  
 06210955 KITV 4 HI WEAK 67.240 V EK1AA  
 06220885 KHON 2 HI -1228 55.260 V EK1AA  
 06220885+KGVM 3 HI WEAK 61.250 V EK1AA

06220858+KITV 4 HI BETTER 67.240 V EK1AA  
 06231029 KHON 2 HI >1230 55.260 V EK1AA  
 06231120 KITV 4 HI WEAK 67.240 V EK1AA  
 06240710 KHON 2 HI -1236 55.260 V EK1AA  
 06240815 KFVE 5 HI HONO 77.250 V EK1AA  
 06240815 KH6HME HI >1030 55.260 V EK1AA  
 06240815 KITV 4 HI STRONG 61.250 V EK1AA  
 06241030 KAII 8 HI KAUAI 181.25 V EK1AA  
 06241030 KAH 9 HI HONO 187.24 V EK1AA  
 06260702 KHON 2 HI -1012 55.260 V EK1AA  
 06260702+KGVM 3 HI WAILUKU 61.250 V EK1AA  
 06260702+KHBC 2 HI HILO 55.250 V EK1AA  
 06260702+KITV 4 HI HONO 67.240 V EK1AA

## MINAMI TORI SHIMA IS.

05310322 JD1/JA0SUQ(M/QL64) 50.150 S JE2DWE  
 05310322 JD1/JA0SUQ (JD1-M) 50.150 S JA6  
 06010058 JD1/JA0SUQ (M/QL64) 50.600 S JA1VOK  
 06012310 JD1/JA0SUQ (JD1-M) 50.130 S JA3  
 06041000 JD1/JA0SUQ 50.130 H JE2DWE  
 06080314 JD1BIY(M/QL64) > PM74 50.110 H JJ3WVG  
 06090345 JD1BIY(M) 50.110 H JA1VOK

## NEW ZEALAND

05290300 EL TV VID/AUD S9+ < 0400 T VK3BQS  
 05300300-EL TV VID/AUD T VK3BQS

## OGASAWARA IS.

05250530 JD1ADP/b (O/QL17) 50.013 B JA1VOK  
 05250413 JD1ADP/b > PM85 50.013 B JE2DWE

05250605 JD1ADP/b > PM64 50.013 B JH4JPO

05252315 JD1ADP/b > QM05 50.013 B JA1VOK

05252330 JD1ADP/b 50.012 B JA1/2/3

05260018 JD1BJP (JD1-O) 50.172 S JM3UQC

05260052 JD1/JH2KMF (JD1-O) 50.145 S JHOBQX

05260109 JD1BJP(O/QL17) 50.172 S JA1VOK

05260113 JD1/JH2ENF (O/QL04) 50.145 S JA1VOK

05260130 JD1/JH2ENF (JD1-O) 50.145 S JA1-G6

05270330 JD1BJP 50.190 S JA1-J3

05270335 JD1ADP/b > PM85 50.013 B JE2DWE

05272303 JD1ADP/b > PM85 50.013 B JE2DWE

05272345 JD1ADP/b 50.012 B JA1/2/3

05280842 JD1ADP/B 50.013 B JA1VOK

05300930 JD1/JH2ENF 50.160 S JA3

05300945 JD1ADP/B 50.012 B JA2/3

05302250 JD1ADP/B 50.012 B JA2/3

05302300 JD1ADP/b > PM75 50.013 B JA1JTG

05302320 JD1ADP/B 50.012 B JA2/3

05310000 JD1ADP/b 50.013 B JE2DWE

05310720 JD1ADP/b 50.012 B JA1/2

05310823 JD1BJP > PM85 50.157 H JE2DWE

06010100 JD1ADP/b 50.013 B JA1VOK

06010110 JD1ADP/B (JD1-O) 50.013 B JHOBQX

06010938 JD1ADP/b 50.013 B JE2DWE

06012330 JD1ADP/b 50.013 B JA1VOK

06020020 JD1BJP(JD1-O) 50.180 S JM3UQC

06020905 JD1ADP/B 50.013 B JHOBQX

06040000 JD1ADP/B 50.012 B JA3

06040048 JD1ADP/b 50.013 B JA3JTG

06040200 JD1ADP/B 50.012 B JA3

06060413 JD1BJP 50.210 H JE2DWE

06070008 JD1BJP(JD1-O) 50.180 S JA6TEW

06162348 JD1BJP(JD1-O) 50.203 S JJ1CKD

## Beacon News

GB3NHQ: on 50.050 was to be QRT for four weeks starting June 14.

GB3REB: on 70.010 is due to be QRV from a new site July 1. The new location is near Camberley IO91OH, 117m ASL, with a 2 el Yagi beaming 330°, 28W ERP. The beacon keeper is G3ZYV.

GB3SIX, GB3LER, & GB3NGI: have been off the air for an extended time. GB3RMK, GB3IOJ, and GB3MCB: however, are on the air (and as of June 14, were the only U.K. 6m beacons on the air), complains Geoff, GJ4ICD.

VK3RMV: VK3AMX reports hearing this one on 50.0535 June 9, mentioning that it had been QRT for a while, and that Steve, VK3OT, must have put it back on the air.

Azores: CU3URA has been reported on 50.013 with a dead (unkeyed) carrier. Bob, WA1OUB, remarks: "at least it doesn't chirp anymore."

Anguilla: Terry, N6CW, had to cancel his trip to VP2ECW. He writes that although he

## Reports of Oceania

### AUSTRALIA-VK2

0610XXXX VK2, VK3  
 06110500 VK2BRG 59

W VK4AFL  
 VK3THJ

reported the VP2EA beacon had been relocated and was operational, he has seen no reports of it being heard.

**California:** N7STU/6 in DM07AA posted the following the last week of June. "The West Coast is diligently looking for CY0AA on 6m. In an effort to increase our chances I have established a beacon on 50.074.0 beaming toward CY0AA. Power is 5w and the antenna is a 7el KLM. The beacon will be QRV from approximately 0500-0000z weekdays and whenever I am not on the band during weekends and the rest of the time.

This is also a test for a planned beacon on this frequency scheduled for sometime in October. If the beacon is being heard by CY0AA or other northern VE/VO1s please contact me by any of the following means:

n7stu@valleynet.com or voice mail: 1-800-800-2924 box# 396-8358

so I can alert the locals and go home to give it a shot.

The beacon will be running until further notice."

**Canada, VE4:** VE4VHF (EN19) has been reported by several W6 & 7 on 50.0375 as early as June 14, and by C6AGN on June 9. It is located at Headingly, MB and runs 35 Watts to an omni vertical. They intended to operate on 50.036 and will see how the long-term crystal drift goes. Send reception reports to Bruce, VE4KQ.

**Canada, VE8:** Read a short post on June 2 from Martin, G3USF, indicating that VE8SIX was on the air, but no details.

**North Pole:** VE6NM posted the following: "To those of you Six Mtr enthusiasts who have expressed an interest in our work to establish a Six Mtr beacon near the geographic North Pole, this is the situation:

There are two potential land locations. Both are on Ellesmere Island. One, at a joint military base/Arctic Weather Station is approximately 450 miles from the Pole. The other, at another weather station, is approximately 500 miles from the Pole.

Current feedback indicates the military at the former site currently would not be in favor of such a beacon although this could change if we could establish the right corrections. I've quietly worked away on this - I was the first military ham operator there back in 1957-58 (boy, that dates me!) and logged a lot of Six activity at that time. Several amateur radio operators available at this site.

The latter site is operated by a commercial entity that I also have some connection with. Unfortunately, as a condition of license, there must be an amateur radio operator on site to be responsible for the beacon and this cannot currently be guaranteed. Cost of electrical power is also prohibitive and I'm working on this facet of the problem, too.

With VE8BY beacon now on from Iqaluit on Baffin Island and VE8SIX from Inuvik, plus possible others, there's no doubt it would

be an asset to have a beacon operating inside the auroral ring, particularly as we're moving into the beginning of another cycle. I'm convinced that we'll see some confirmed NA-EU Six Mtr au QSOs on this cycle - just have to keep plugging away at it. . . ."

## W6JKV moving to W5

James Treybig, former CEO of Tandem Computers and 6m DX-peditioner extraordinaire, announced that he has put his Los Altos Hills, CA home up for sale and when it is sold will be moving to an 80 acre estate near Austin, TX.

We in Northern California will miss the easy access to him and his annual BBQs. Our loss will be Texas' gain. (He has relatives there). Hopefully he will continue his EME and 6m DX work from his new QTH when he gets settled.

## WA1OUB's Multihop Es Statistics

(Continued from page 1)

The period June 16 through June 22 has been the most interesting for me so far. This week saw a tremendous reduction in the readings and a clear correlation with the reduction of in-band (6m) Transatlantic conditions. The week has been a milestone for several reasons:  
1- This is the first entire week of zero 6m in-band transatlantic propagation since Mid May (for me - at my latitude of 43 deg. N).  
2- This week marks what many consider the peak of 6m Es propagation in the Northern Hemisphere.  
3- The minor geomagnetic storm of mid week brought about a marked reduction of the readings on this high latitude East-West path, immediately following the minor storm conditions.

4- For three days following the minor geomagnetic storm, the 48.250 signal peaked at a Southerly skewed offset from true. On two of the three occasions I passed the skewed direction over the Packet Cluster with the additional text: W4-Eu I was quickly rewarded by receiving Cluster information back that either the W4s or W5s had made contact with S. Europe/ N. Africa!  
5- During the period immediately following the geomagnetic disturbance, I noted a marked improvement in N-S multihop paths and several had reported enhanced NE-SW or NW-SE paths.  
6- The most marked reduction of propagation was immediately noticed as a reduction of "mystery mode" propagation (see diurnal below).

### Diurnal/Mystery Mode Propagation

The diurnal continues to be a mix of two propagation modes: The classic Sporadic E which has measured peaks of 1130 and 2030-2130 UT and another unknown mode of propagation (unusable for 6m communications at amateur power levels) which peaks with the average elevation of the Sun. So far the realistic possibilities for "mystery mode" propagation are: 3-hop ionospheric scatter or unusually long distance propagation due to an elevated E layer at the time of the 1430 UT peak. I find the possibility of a second propagation mode most interesting and have begun collecting link gain/ HAAT/ EIRP data in an effort to

find out what is going on here. Any help with this issue from the professional propagation community would be appreciated.

The value of the "mystery mode" of propagation should be obvious. If I can detect the condition of the E-Layer, well prior to the 1800 UTC upswing to the 2130-2230 Es known peak, then that condition might provide some advance warning as to the probability of a transatlantic opening later in the day.

### Critical Periods Of Assessment

In my opinion, there are three critical periods of assessment. Two of these periods are just prior to the expected peaks of 1130 UT and 2030-2130 UT. The period just after 1730 UT is probably the most critical of all. This (for my "setup") represents the transition period between loss of "mystery mode" propagation and true Sporadic E that fits the diurnal that took me over 10 years to create. After 1730 UT any major sustained increases of signal level will probably lead to favorable 6m transatlantic conditions to somewhere. It is especially important to search for indicators at varying geographic locations at this time (and at any time of suspected conditions) due to the geographic selectivity often associated with these 3+ hop openings.

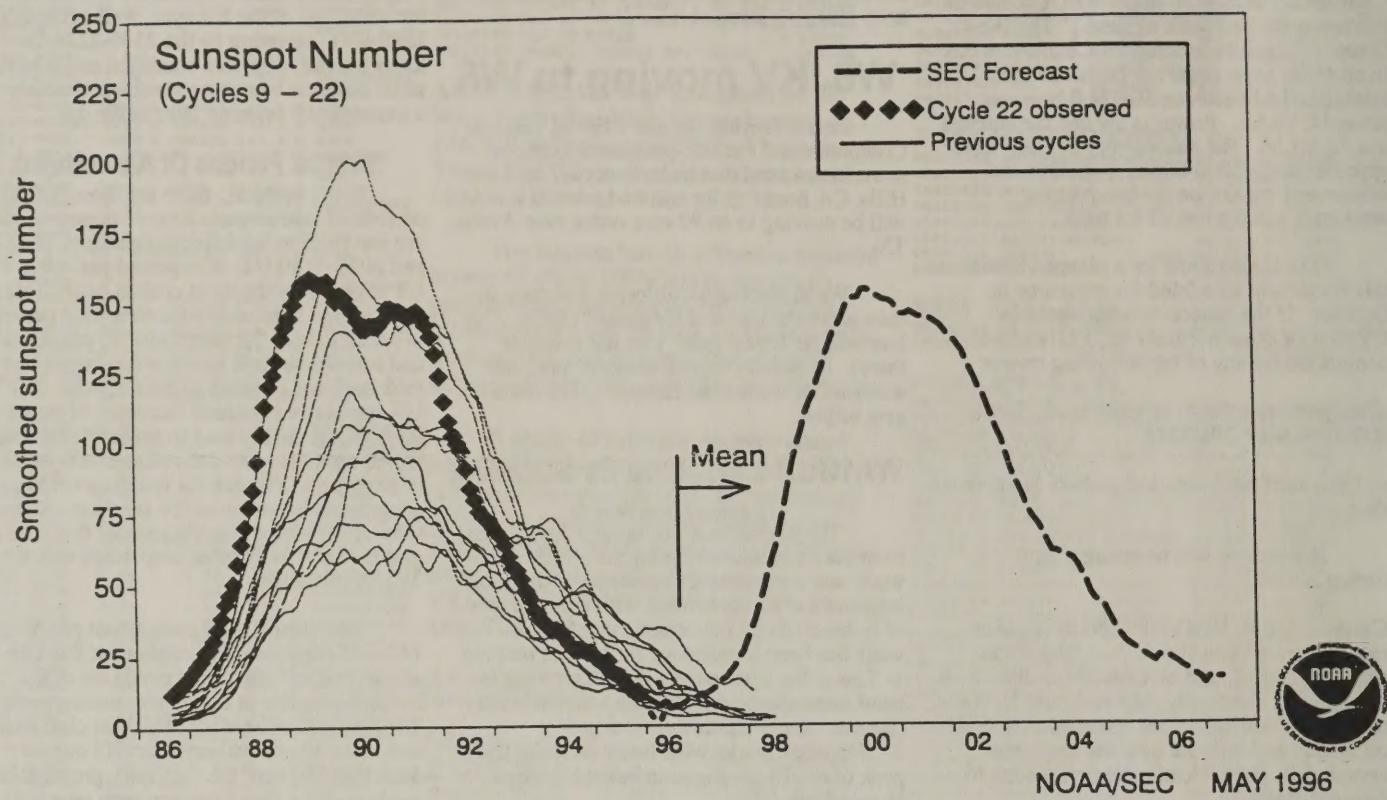
The third critical assessment period is at 1430 UT (approx). Assessment at this time allows one to "sniff" the condition of the Ionosphere prior to the major evening peak. The connection here is not all that clear to me at this time but I will say this: If I cannot detect 48.250 near the "mystery propagation mode peak" - then I can say with over 90% certainty that the evening Es peak will not be productive. On the other hand, I often detect 1430 UT propagation which does not lead to a productive opening.

For lack of a better description, I view the post 1730 UT period as the "birthing time" for productive Es formation over the transatlantic path. As I begin to focus on this period I begin to see the same patterns repeat over and over again:

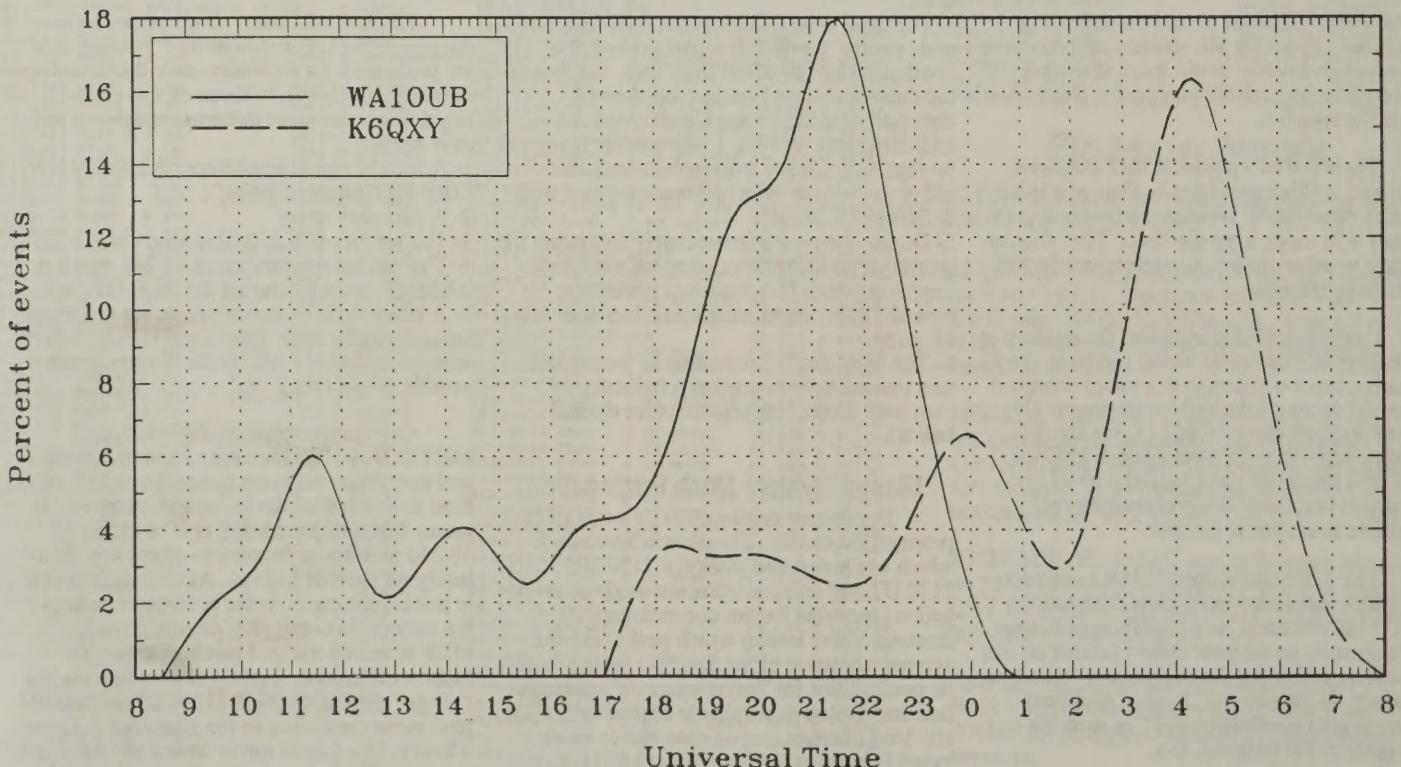
- 1- A fade of signal level from 48.250 500 KW EIRP via "mystery mode"
- 2- A period of quiet
- 3- The return of 48.250 (this time via true Es)
- 4- The sudden appearance of 48.242 which is RARELY received during the 1430 UT peak
- 5- A rise to true Es that supports 6m communications usually after 1800-1900 UT (Note that sometimes MANY 48.25/ 49.75 carriers are audible at this time)

One final interesting observation: METEOR BURSTS. Yes, I hear these often and they mean different things depending upon their time relationship to the enhancement. It seems that when the MUF is at or above the 48.250 monitored frequency- there are absolutely no meteor bursts. As an enhancement is just beginning or in the process of ending- the meteors become very detectable as the MUF is briefly nudged just high enough to make a difference. I rarely if ever hear meteor "pings" during the 1430 UT peak which could lend some credibility to the Elevated E Layer Theory. No- I have never heard so much as a single meteor ping during the August Perseids shower- but I will keep trying!

## Solar Cycle 22 Compared to Previous Cycles



## N. Atlantic and N. Pacific Multi-hop Sporadic-E Compared



(Spline fit in graphics program implies greater resolution than is justified by hourly input data.)